NASA Technical Memorandum 87690, Part 2

1984 DIRECT STRIKE LIGHTNING DATA

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and

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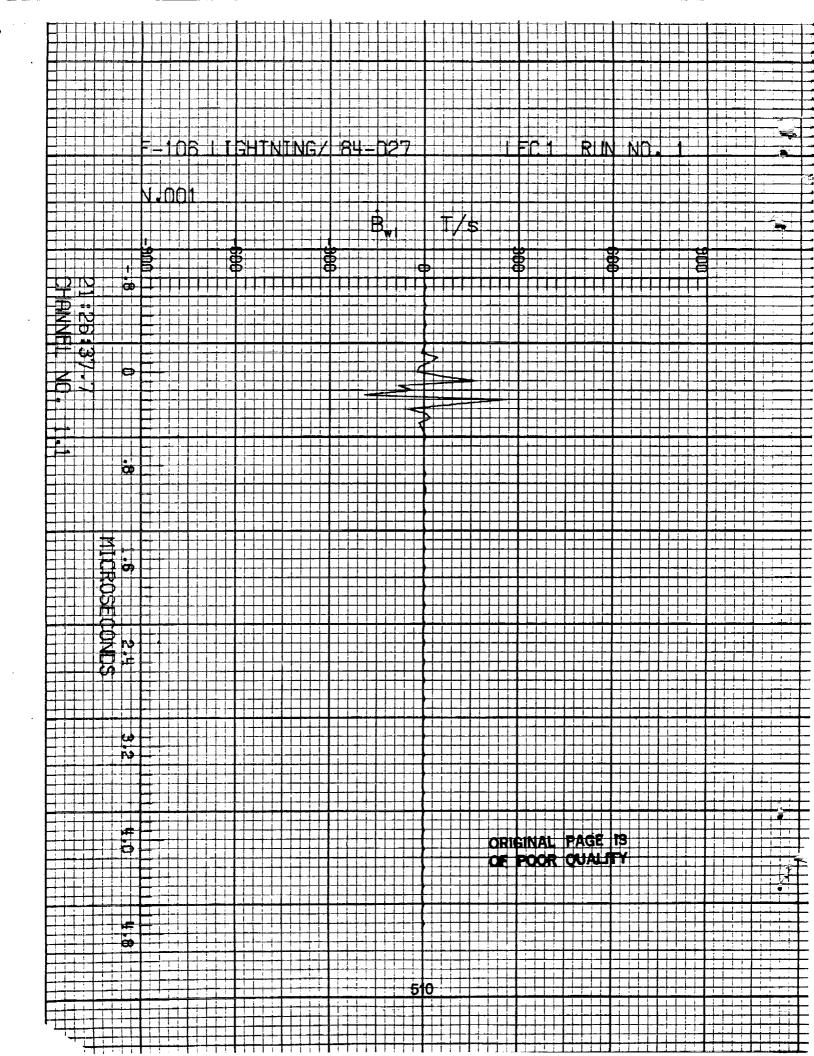
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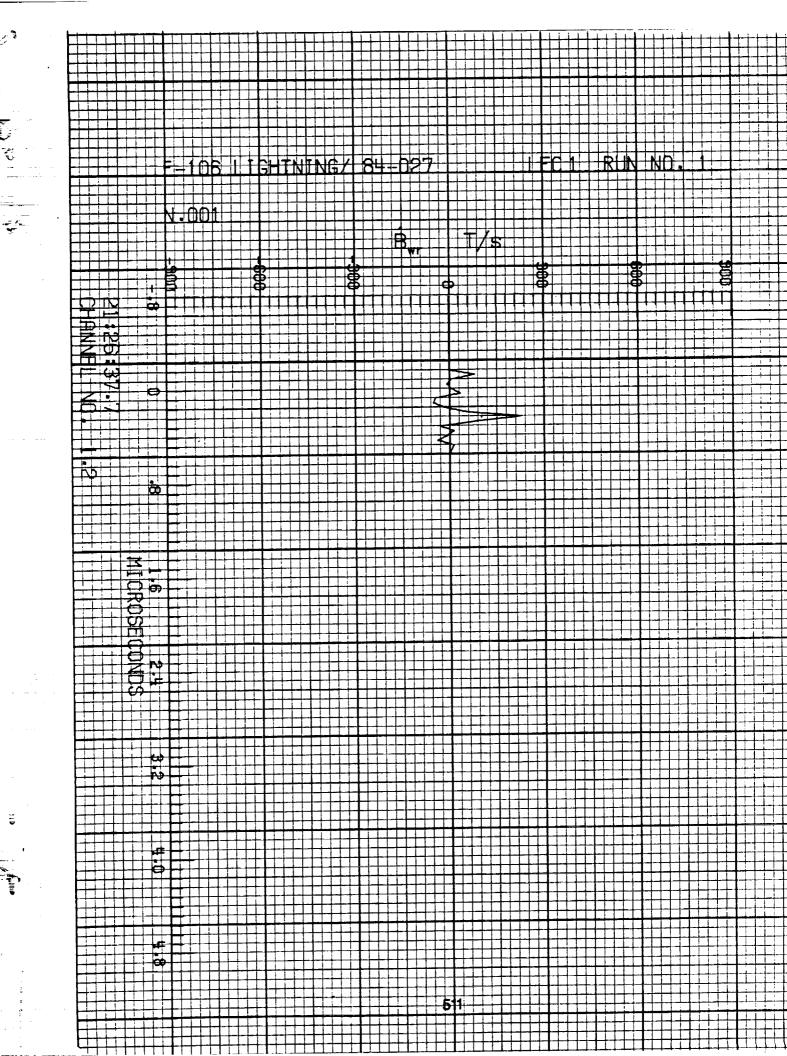
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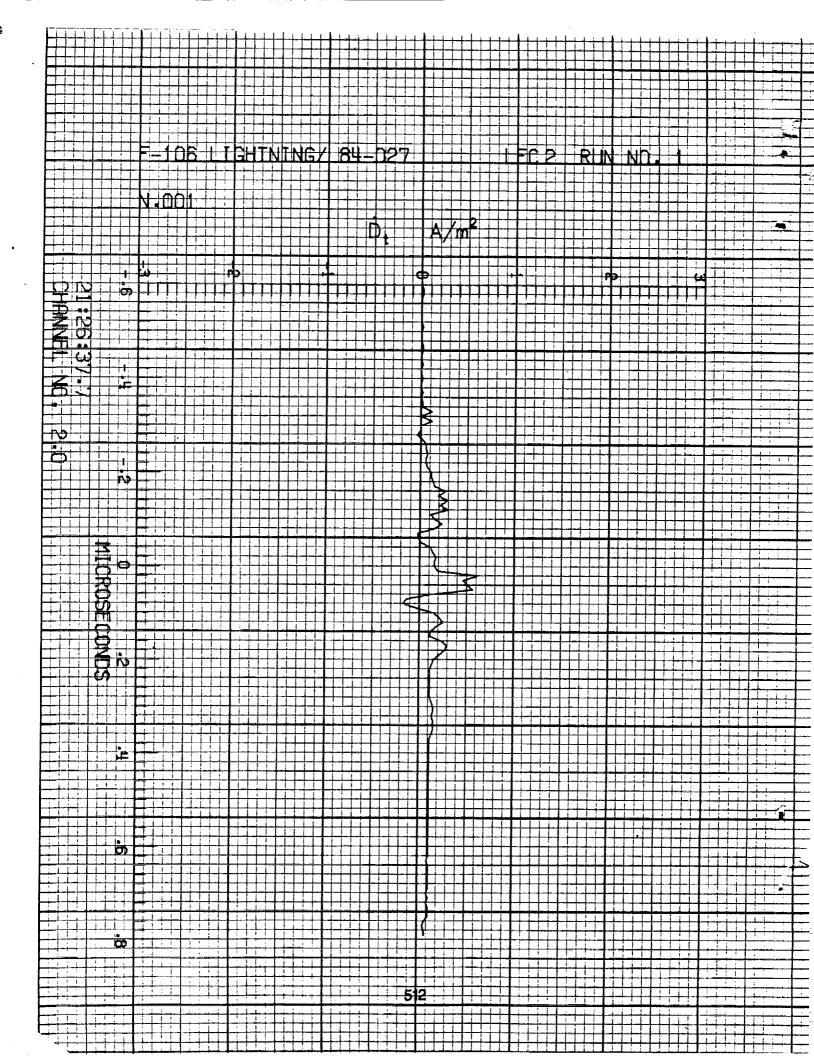
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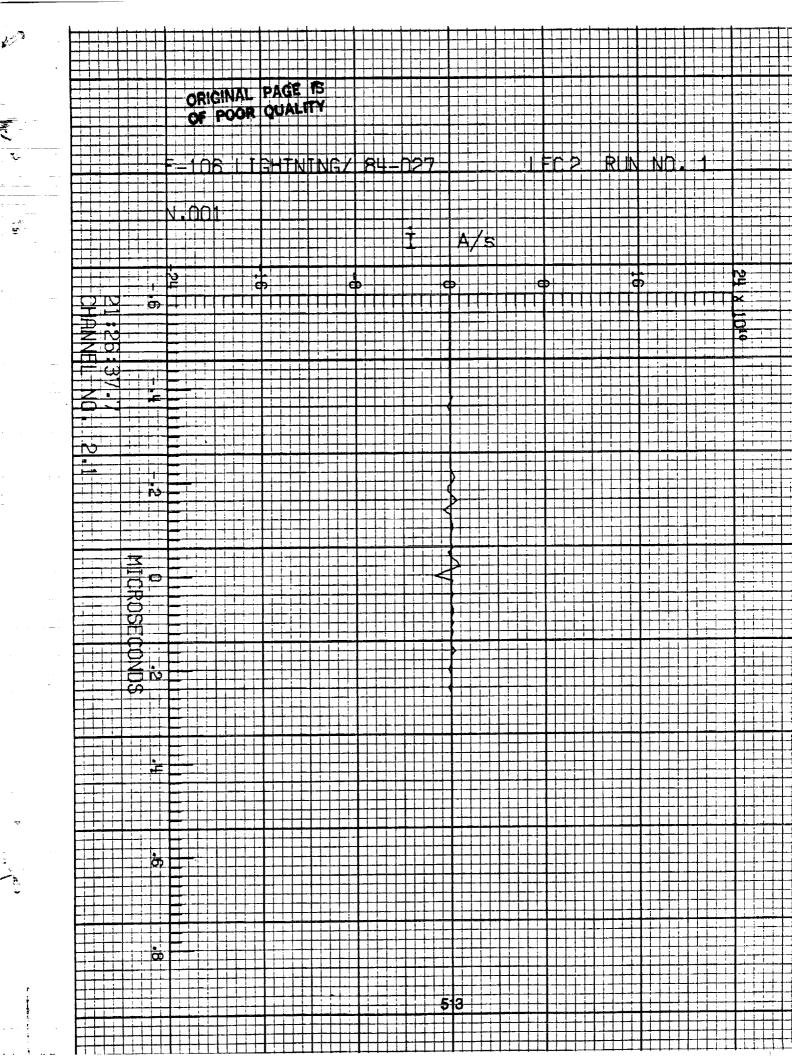
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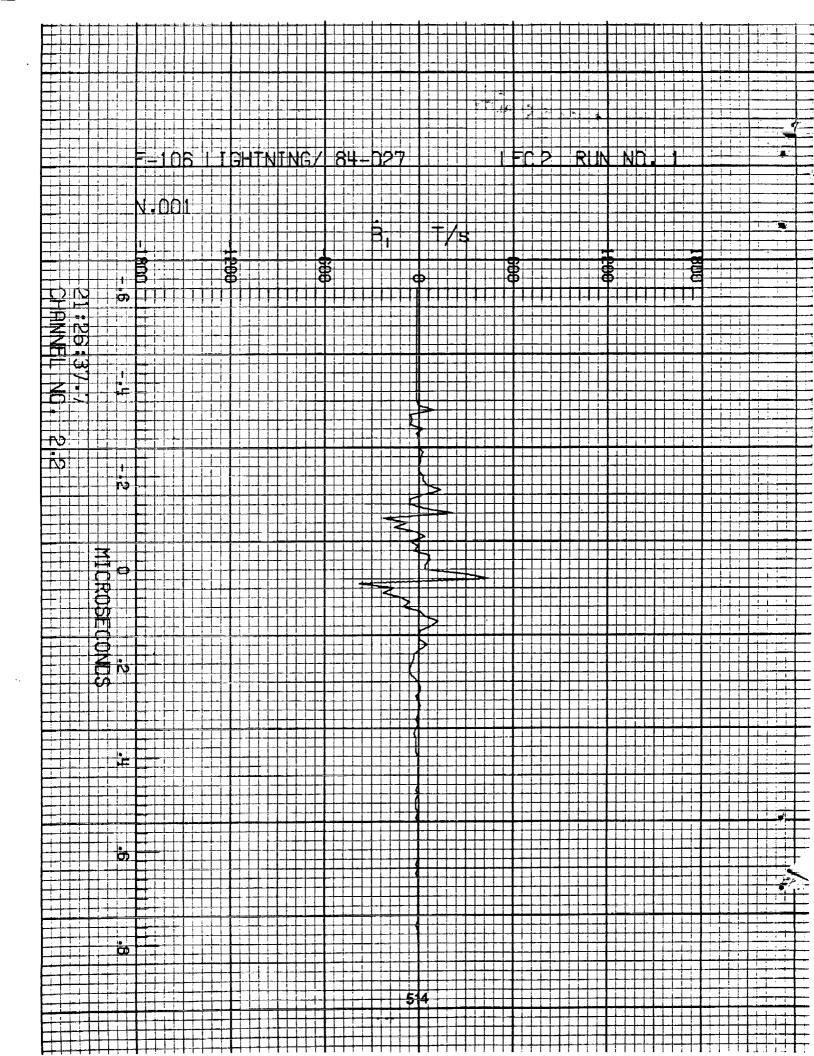
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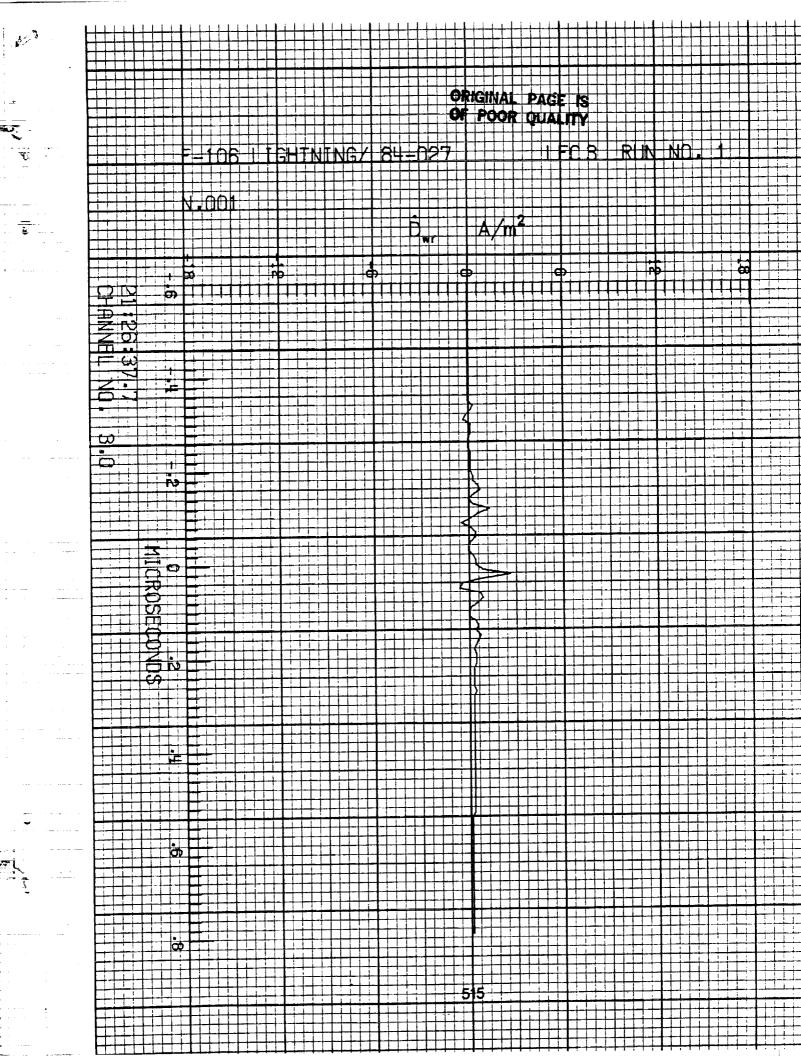


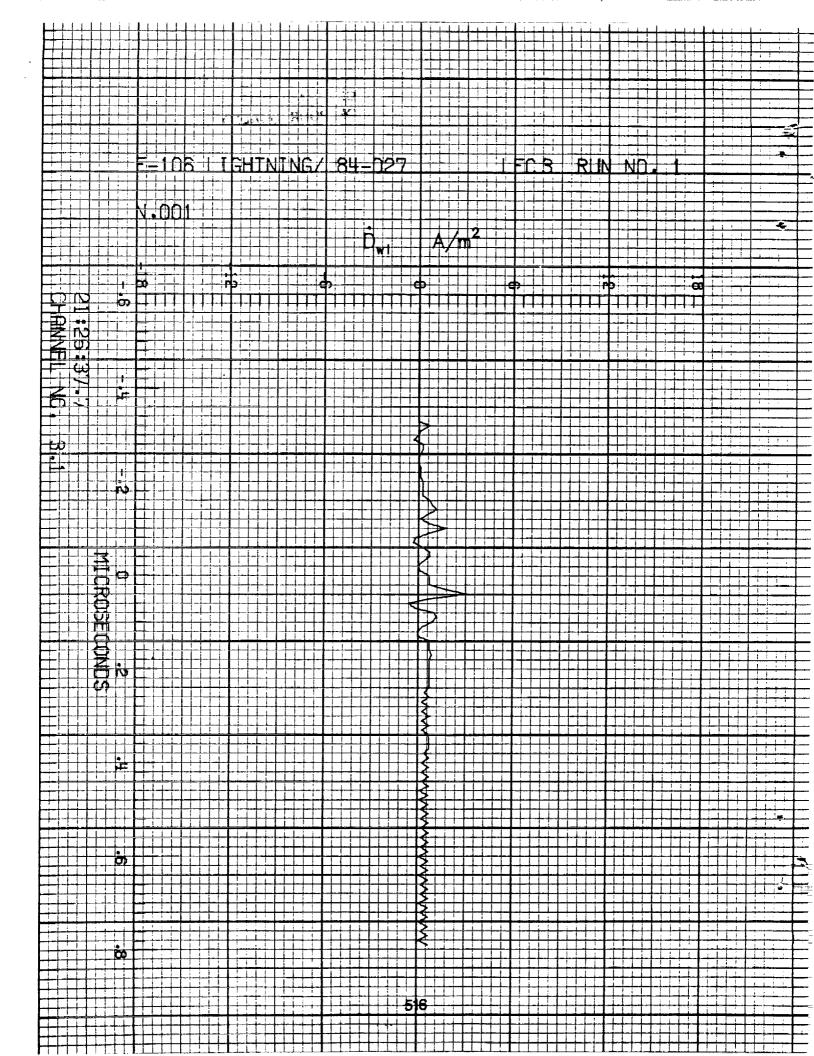


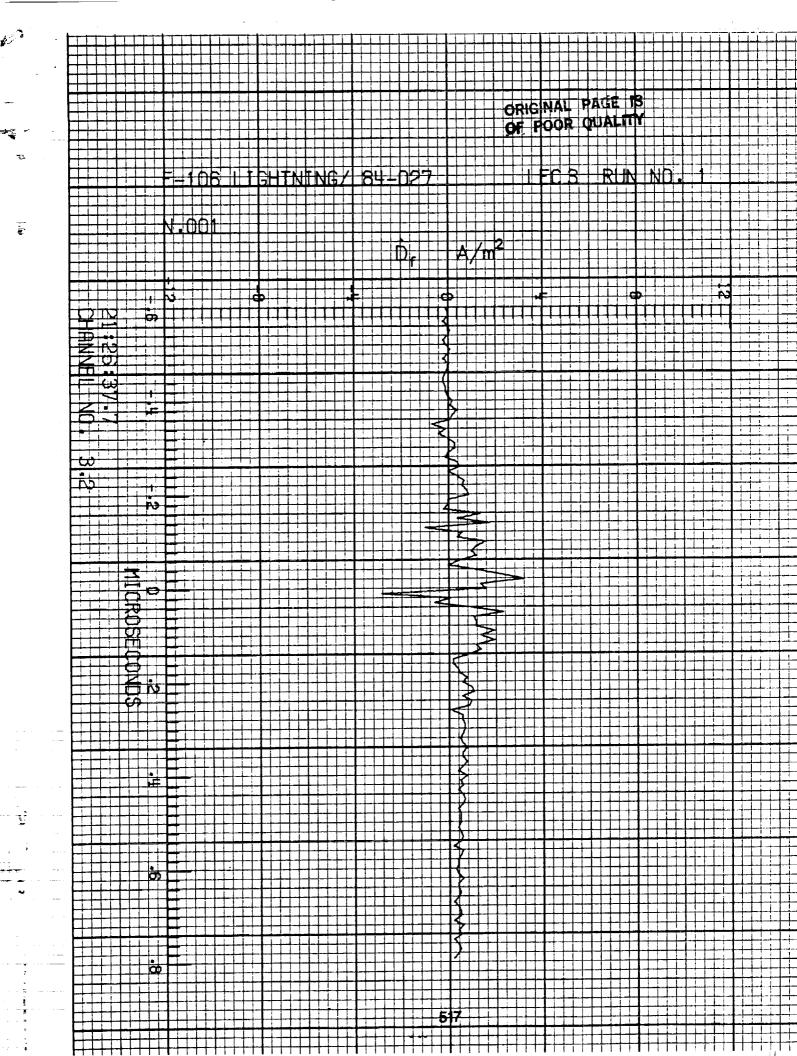


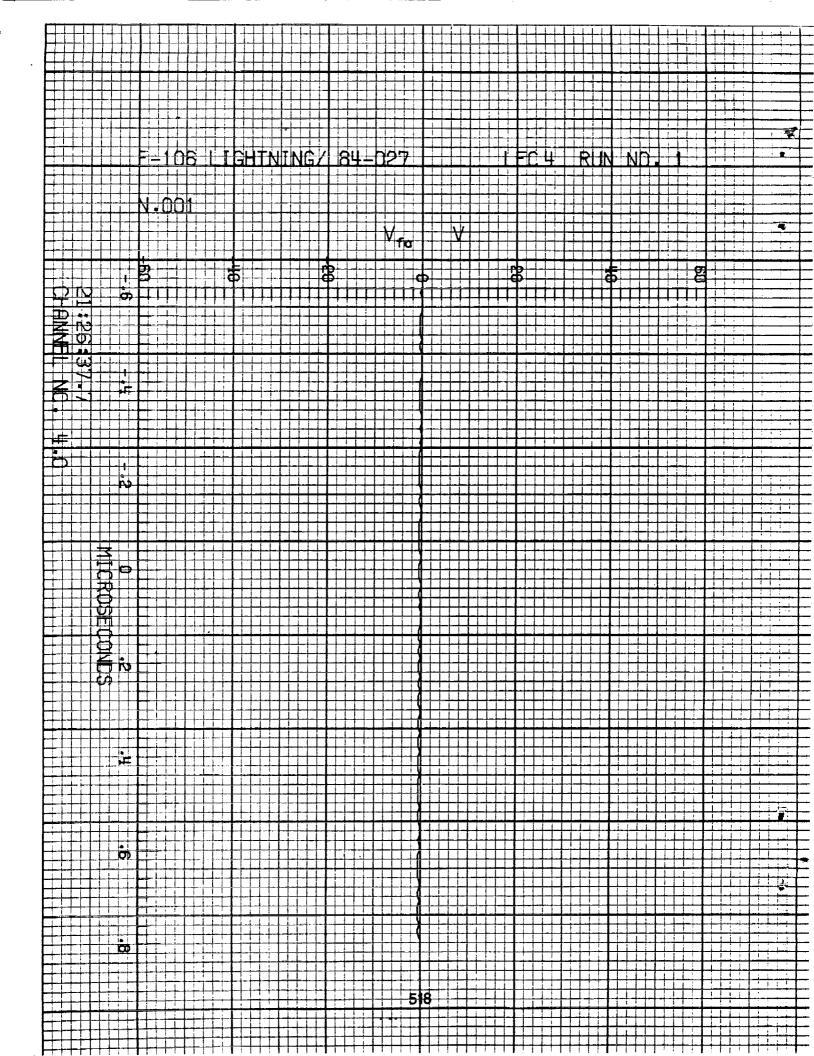


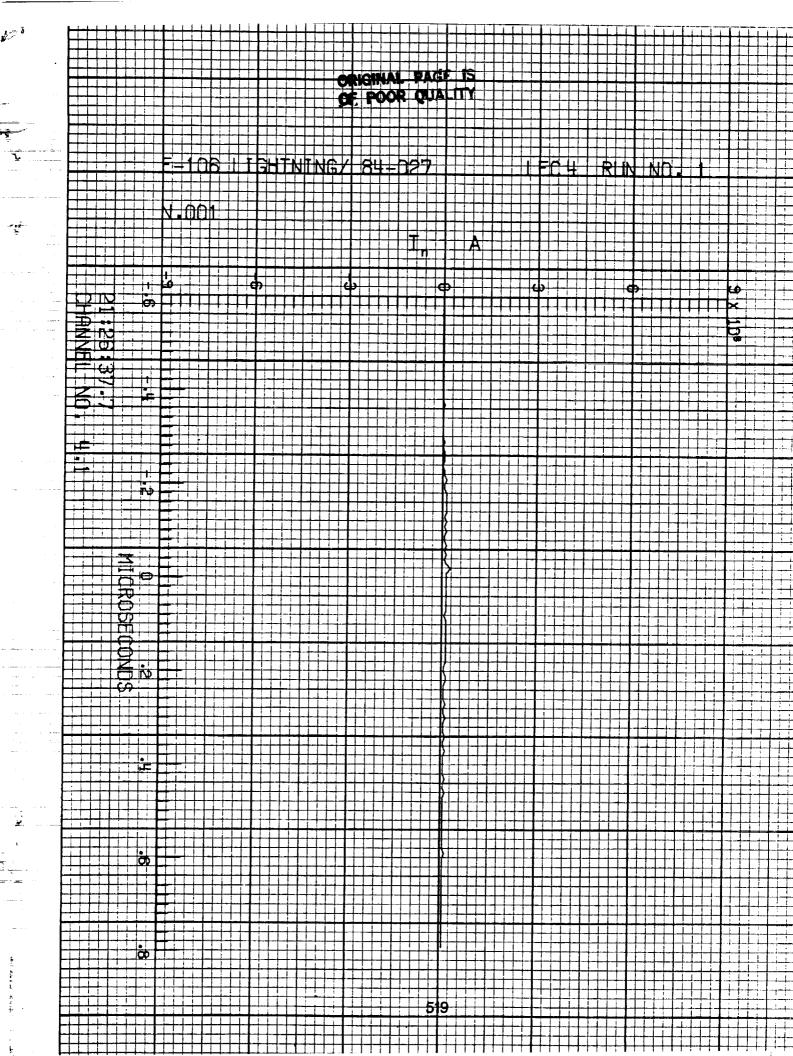


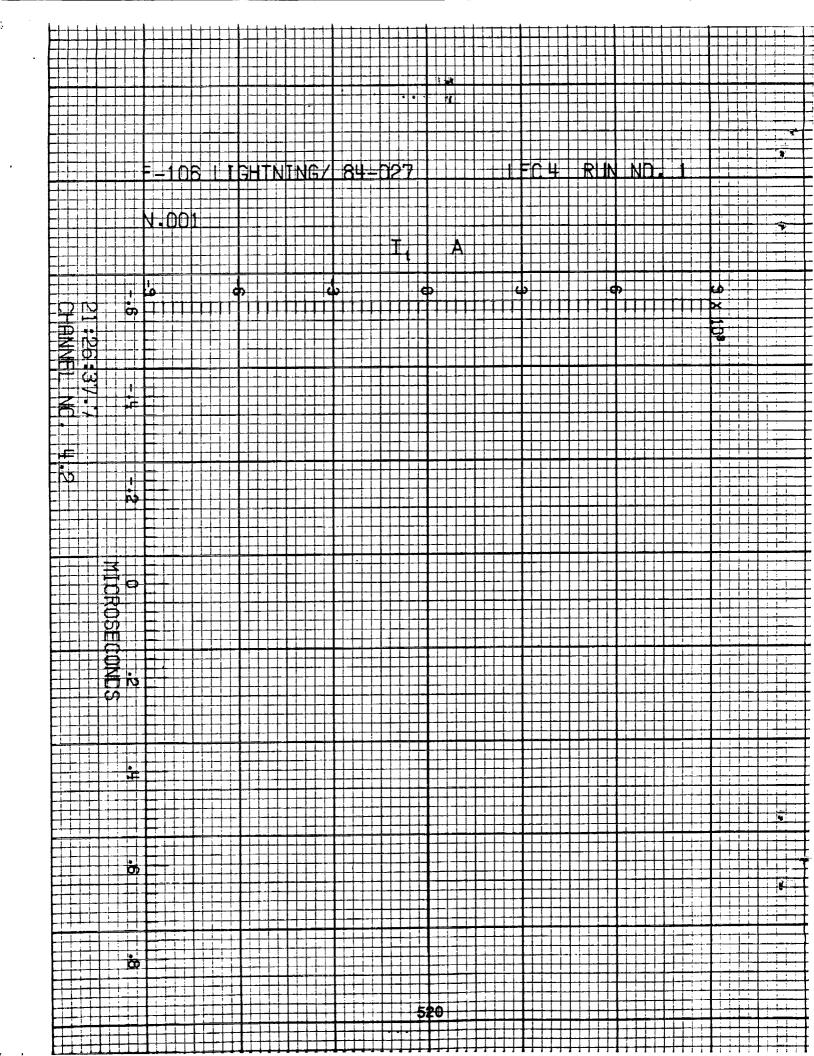


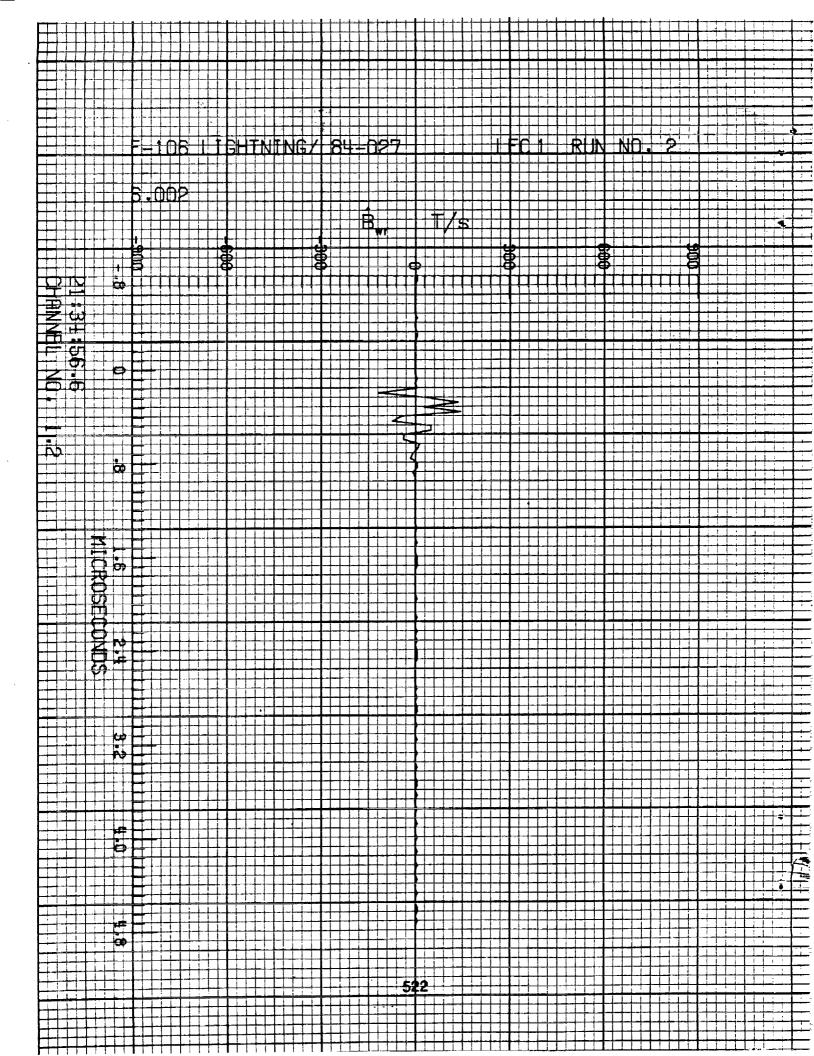


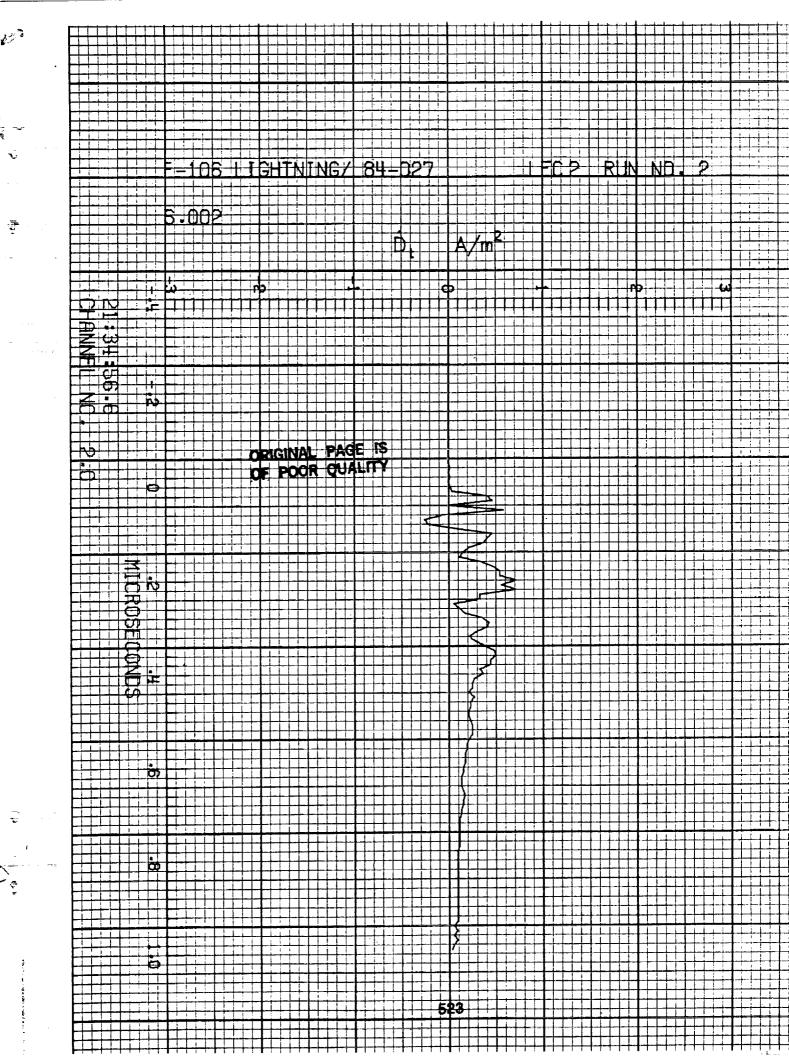


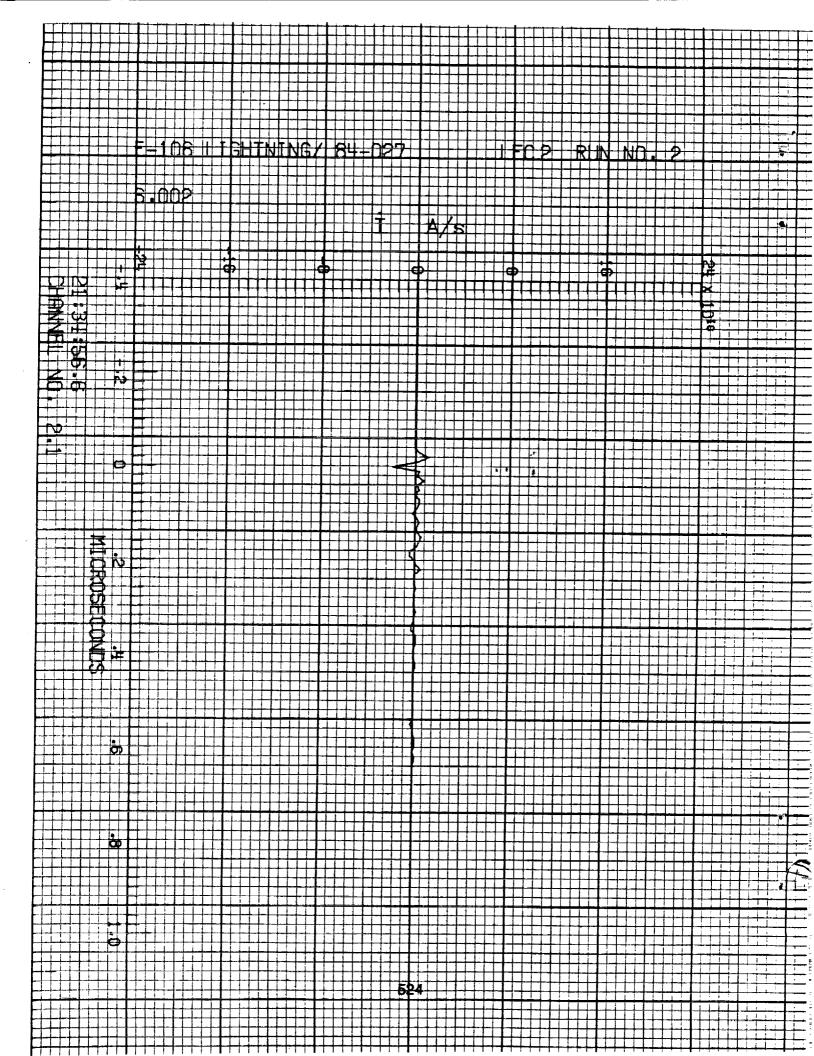


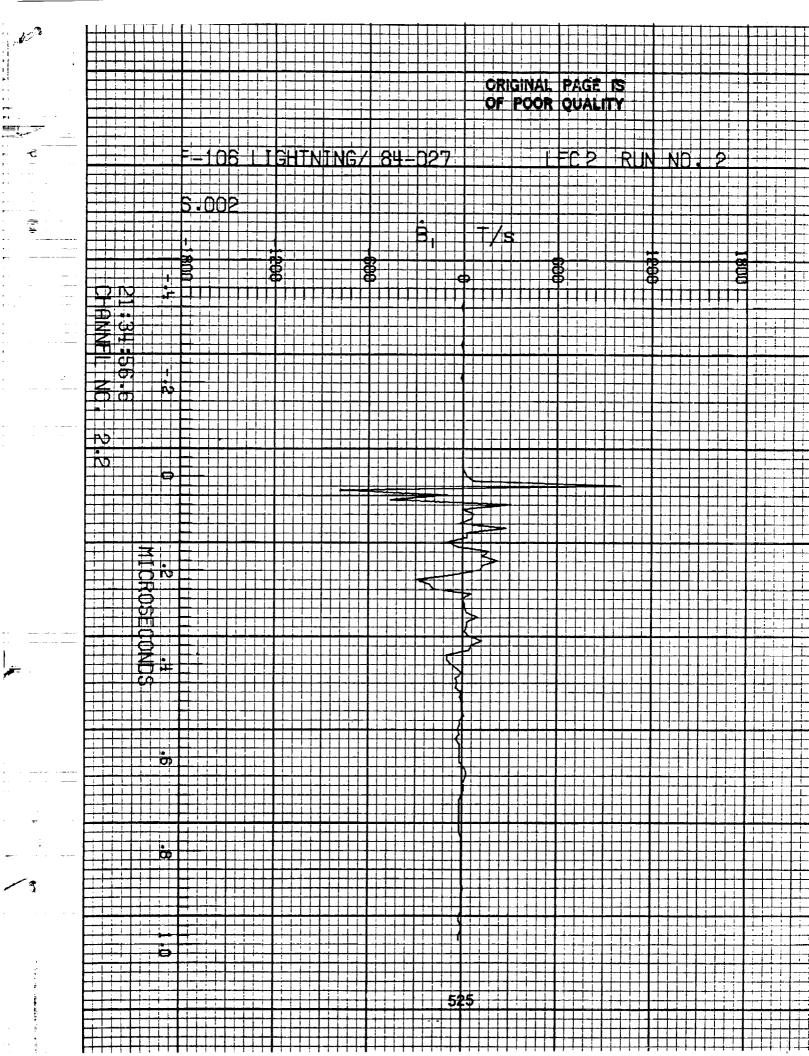


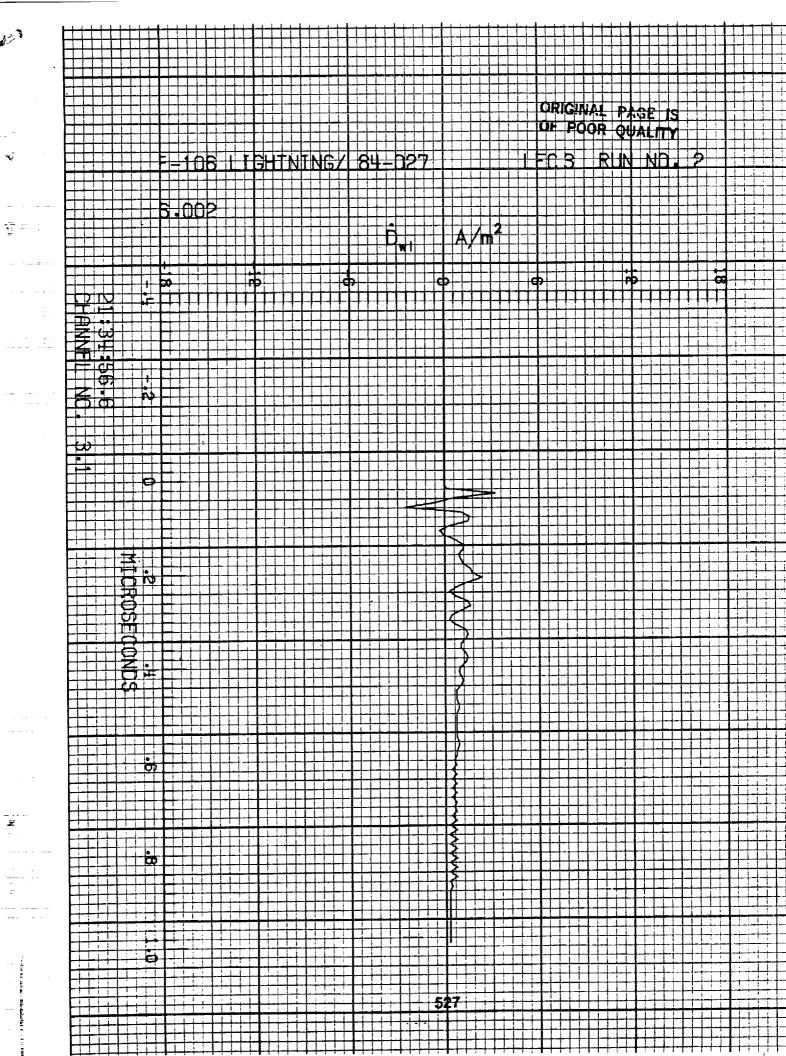


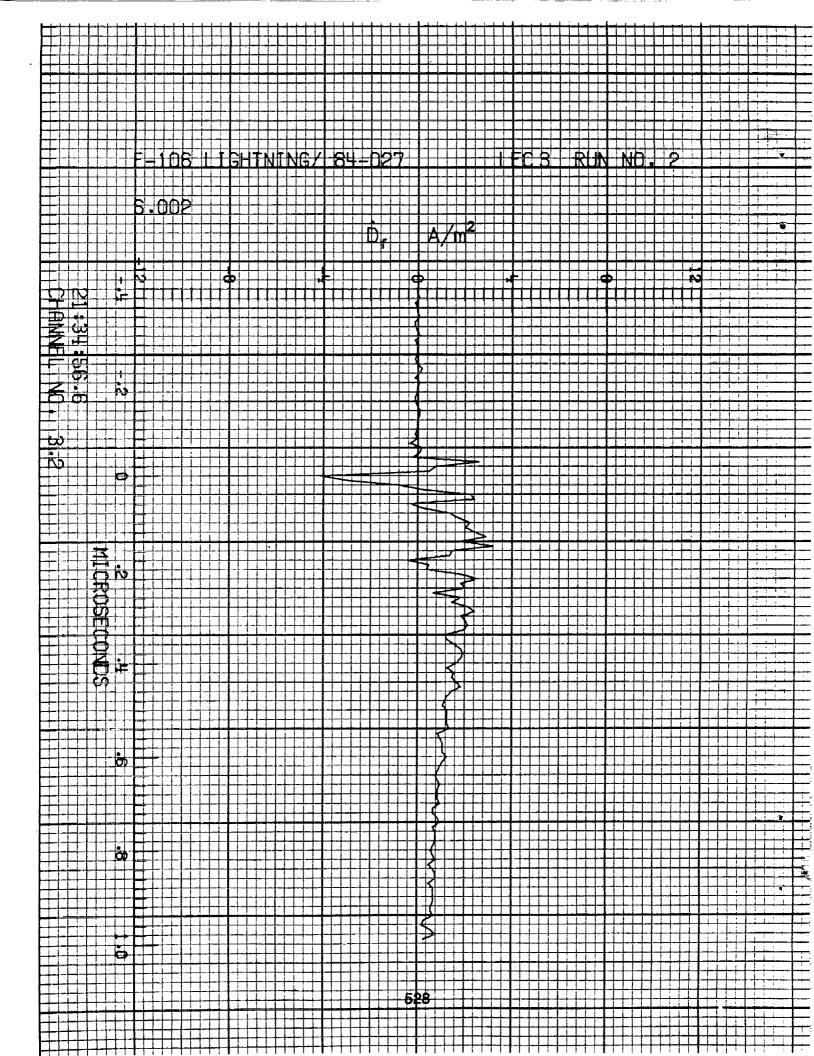


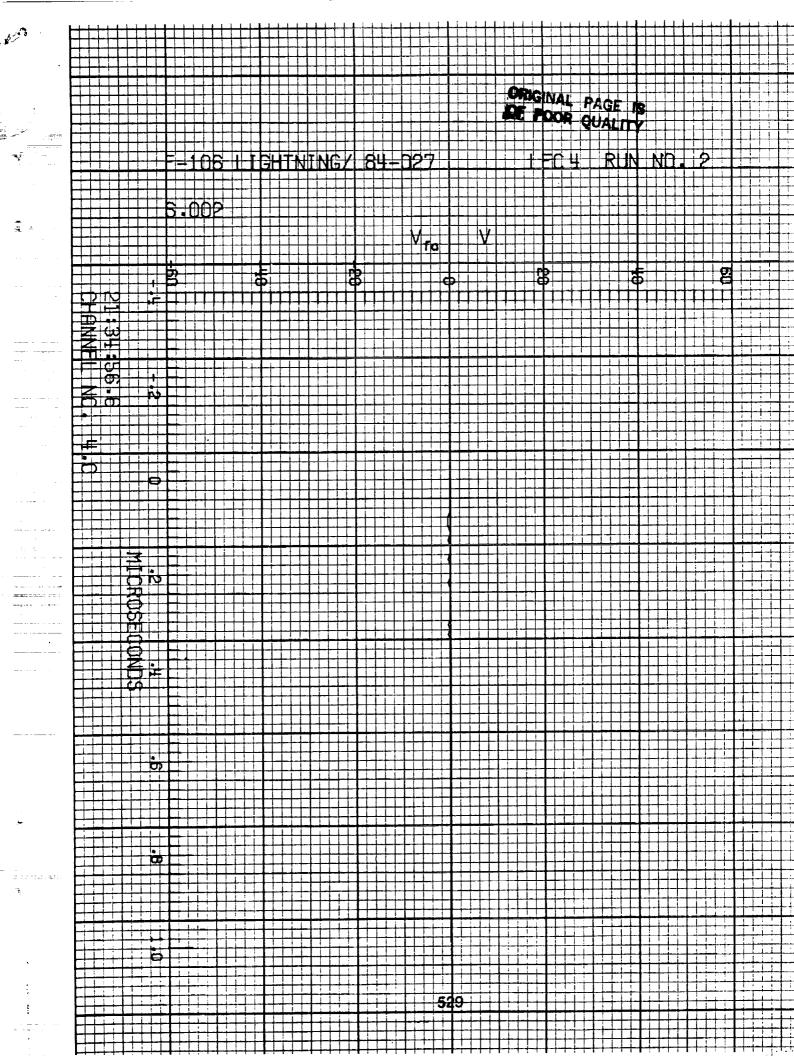


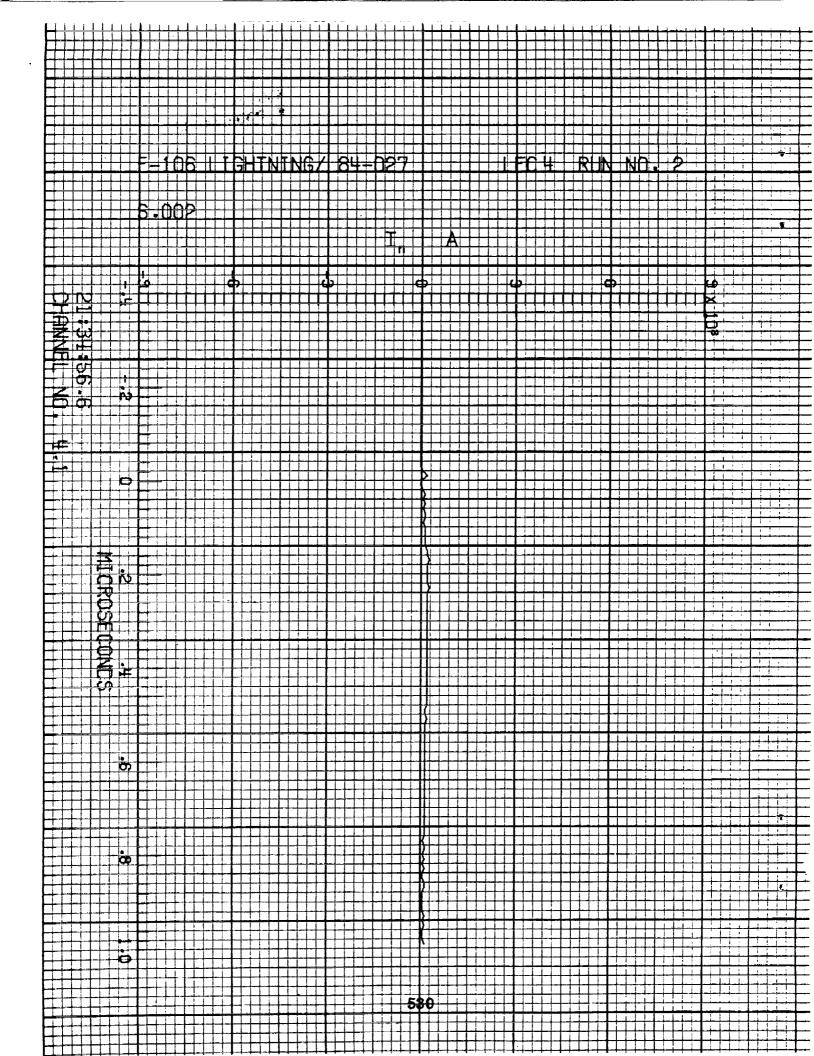




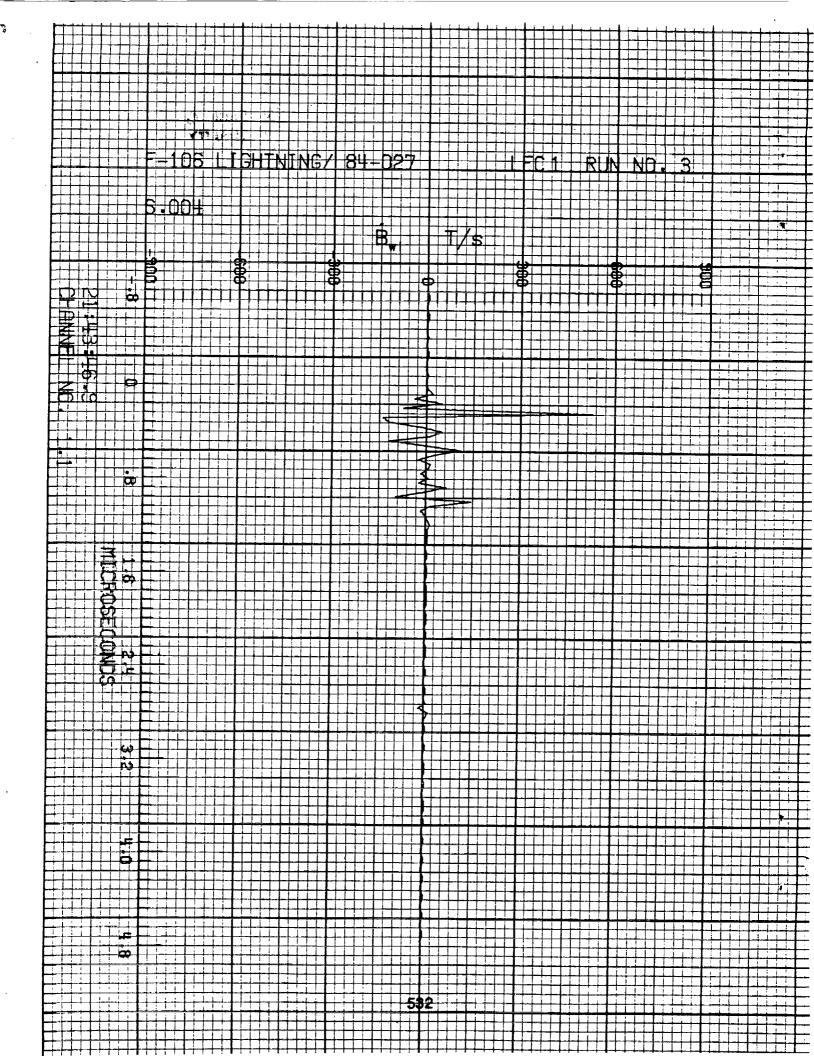


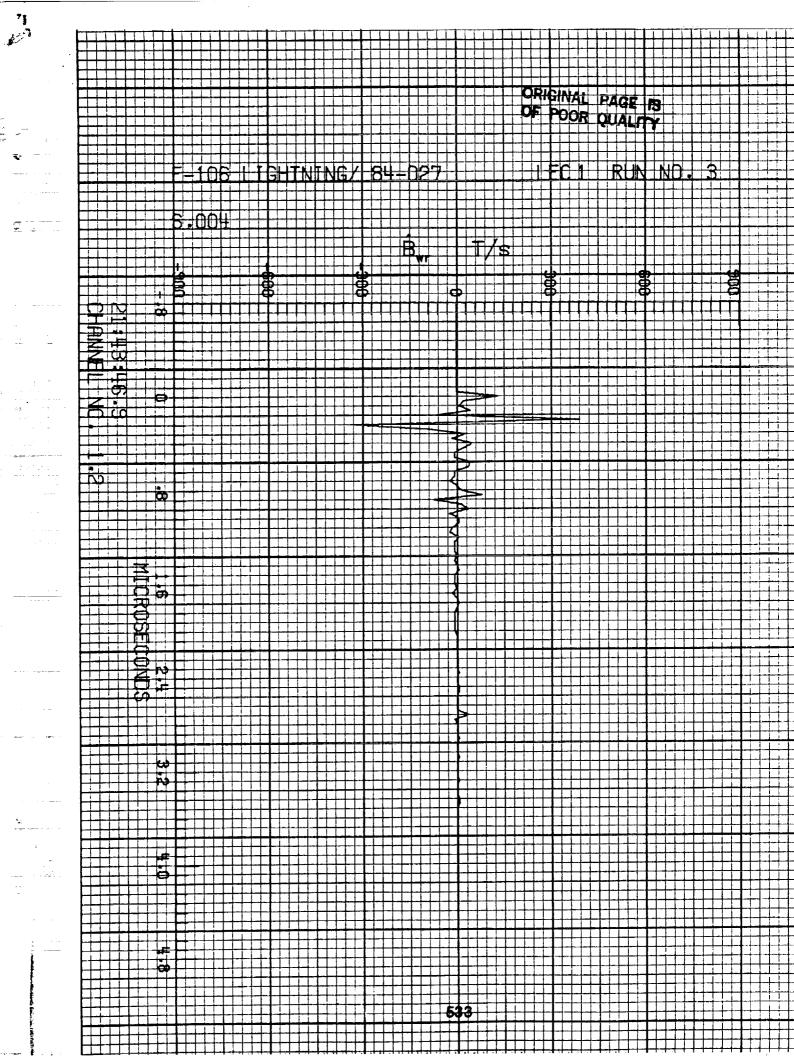


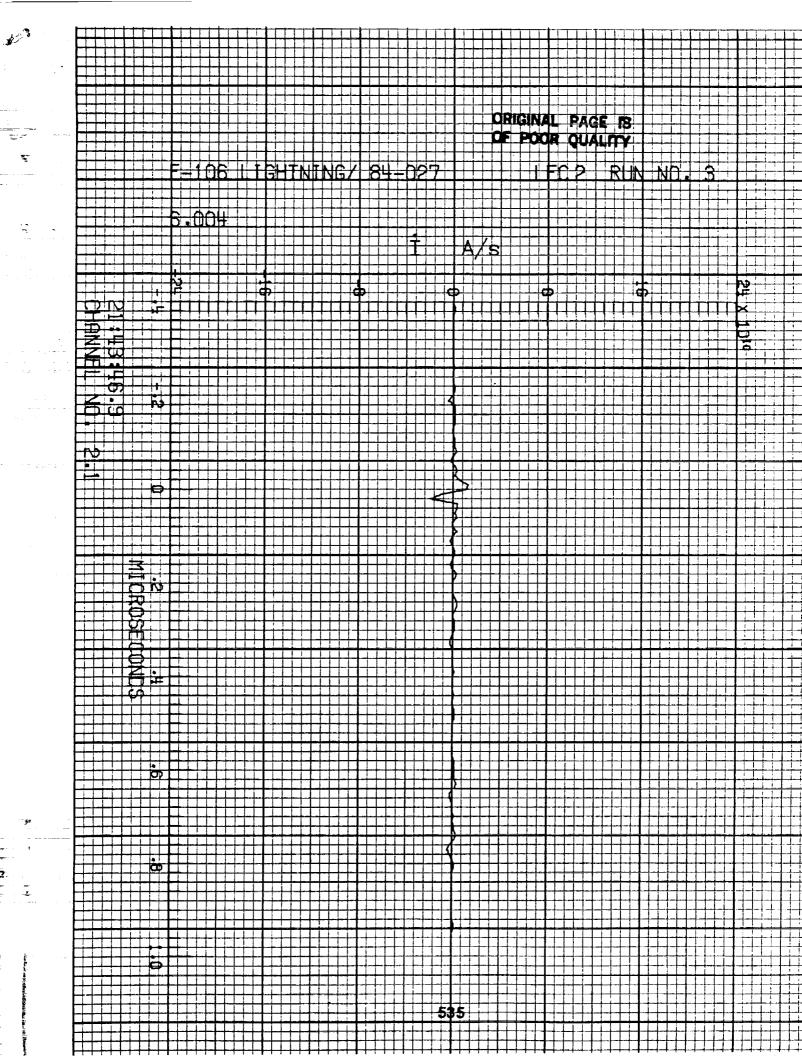


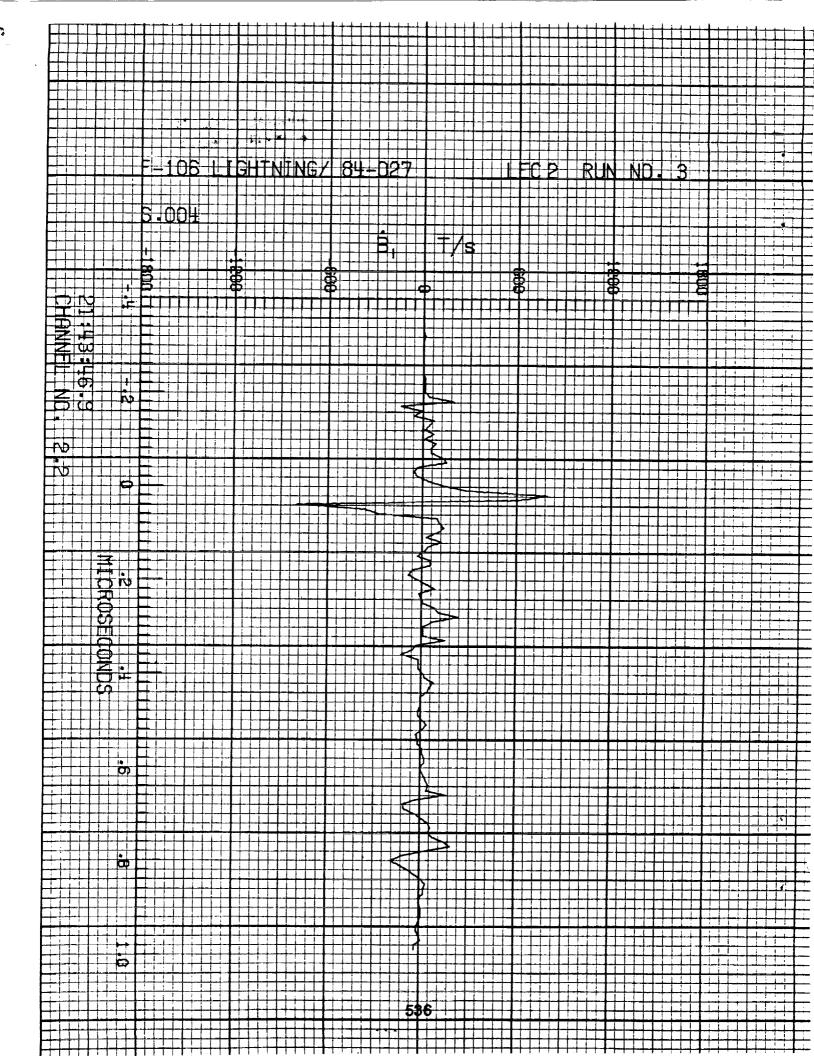


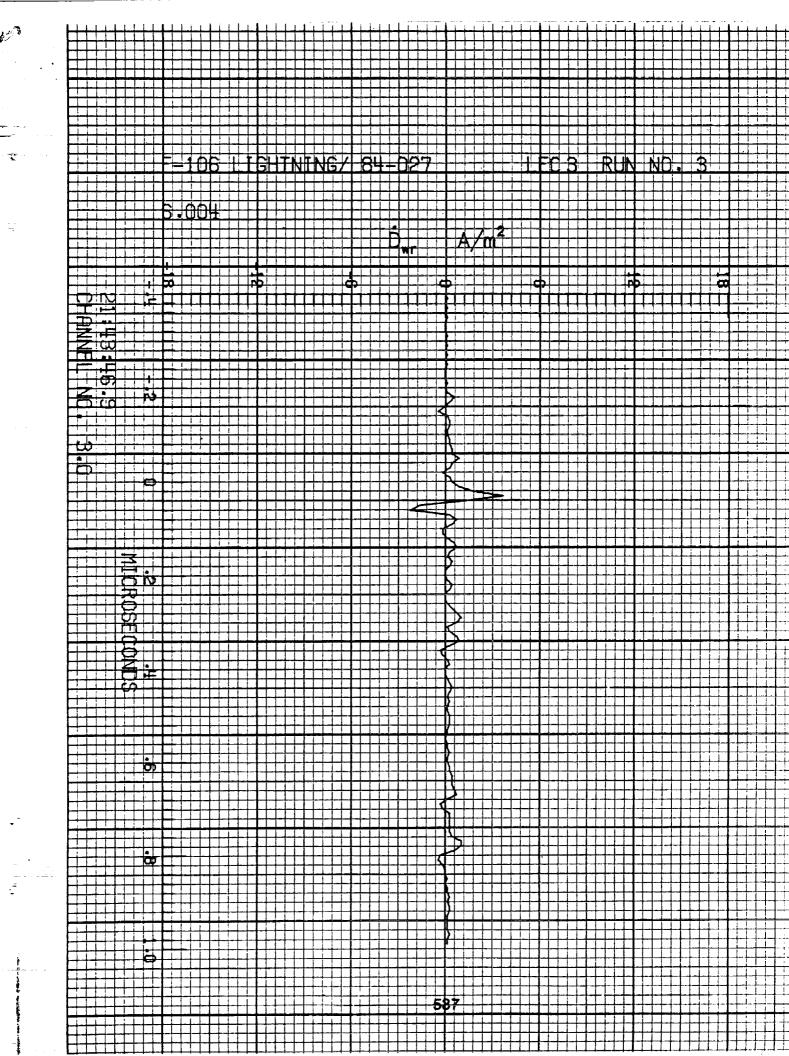
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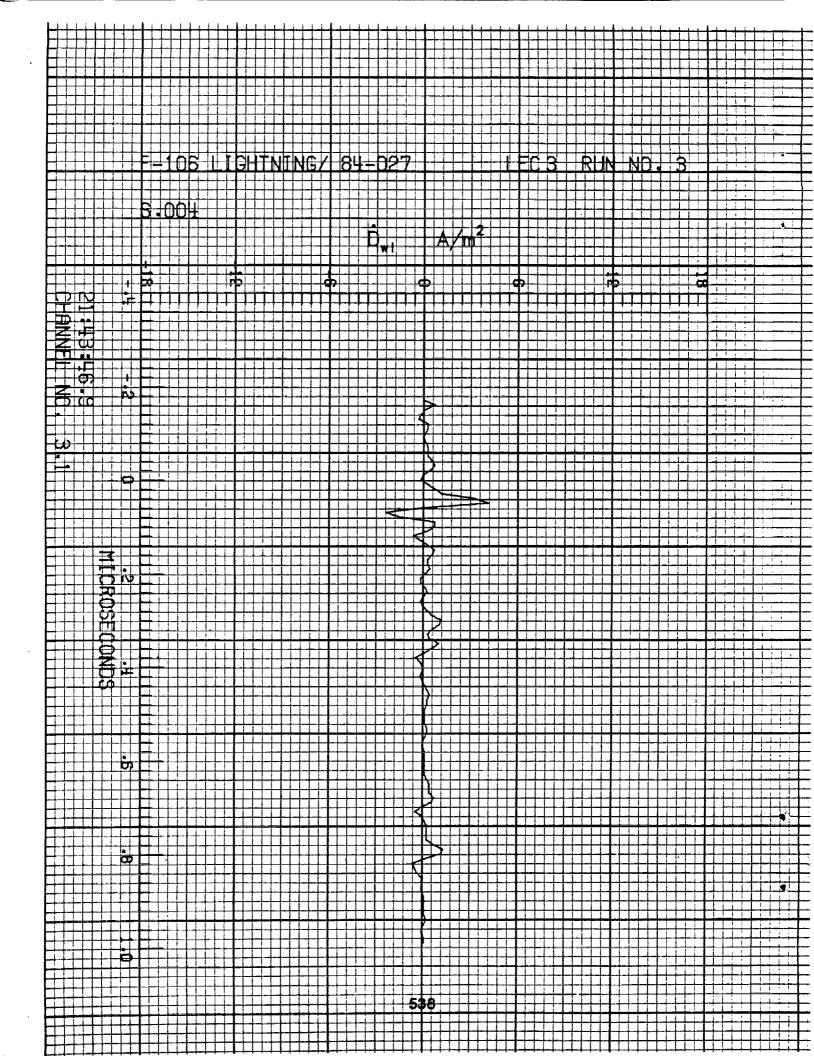


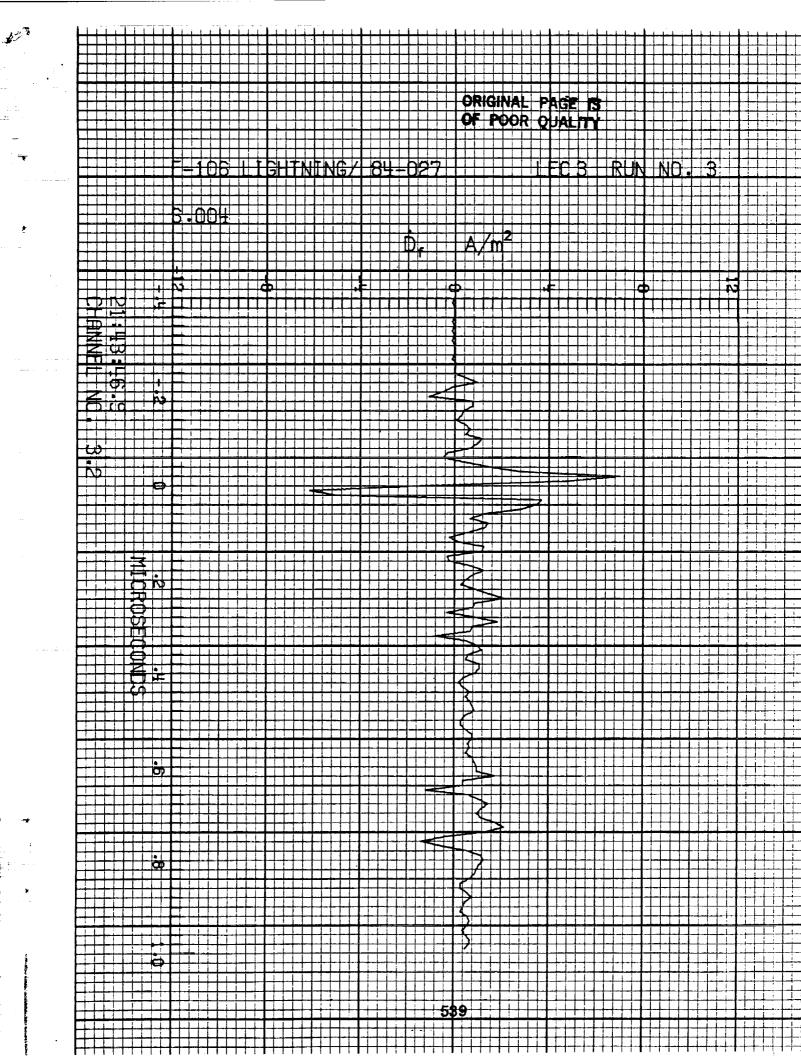


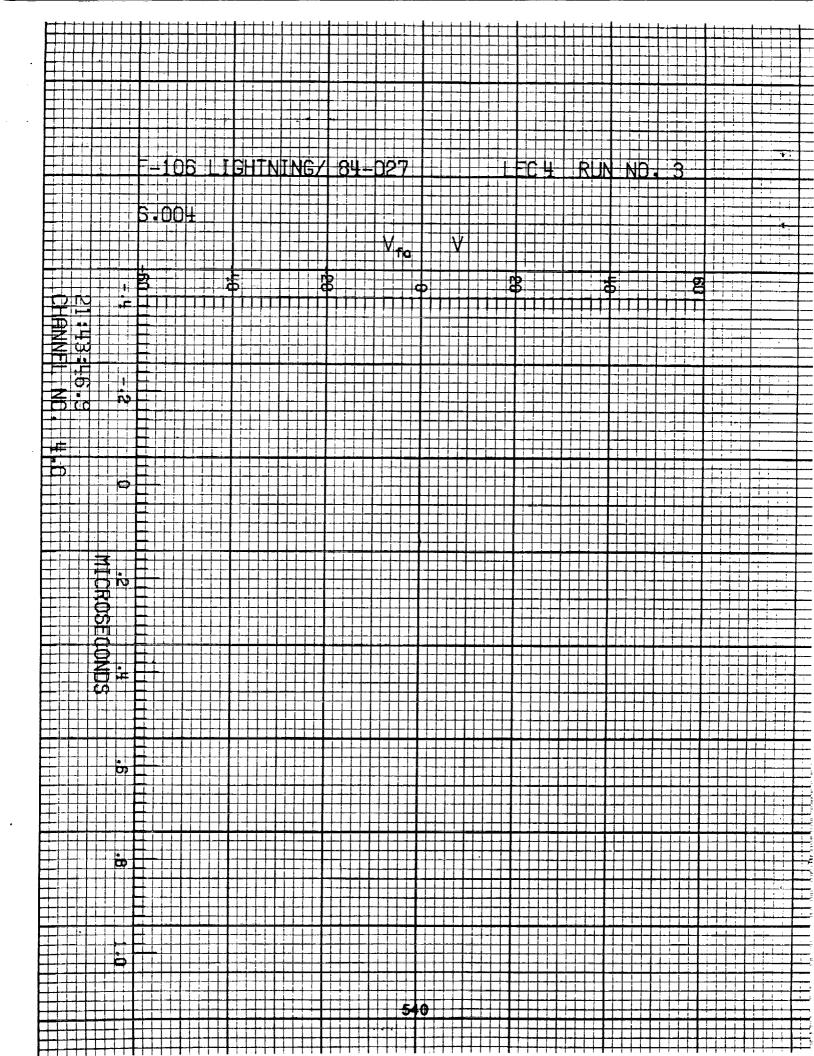


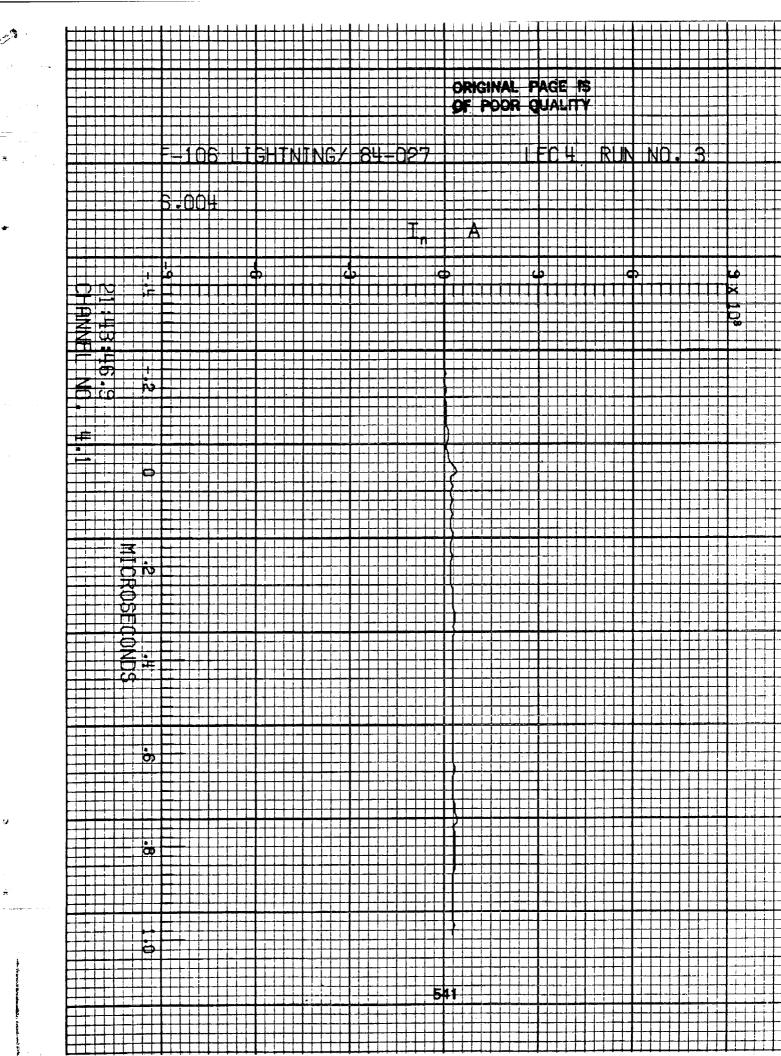


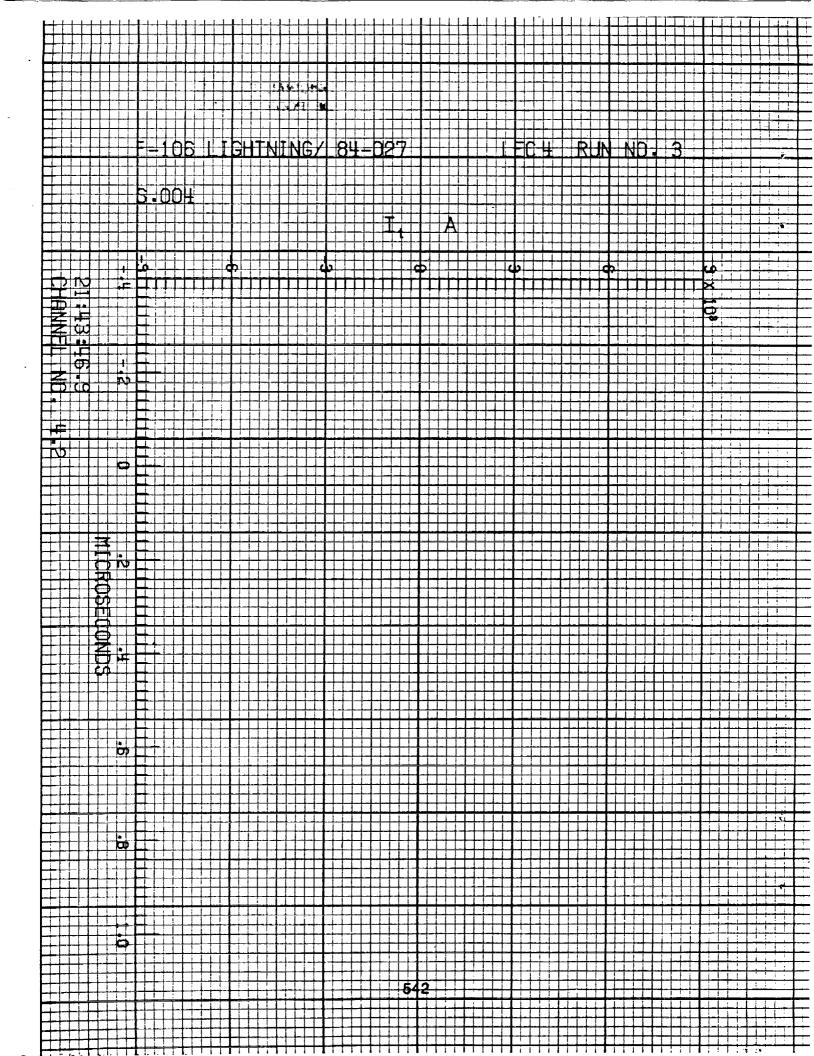


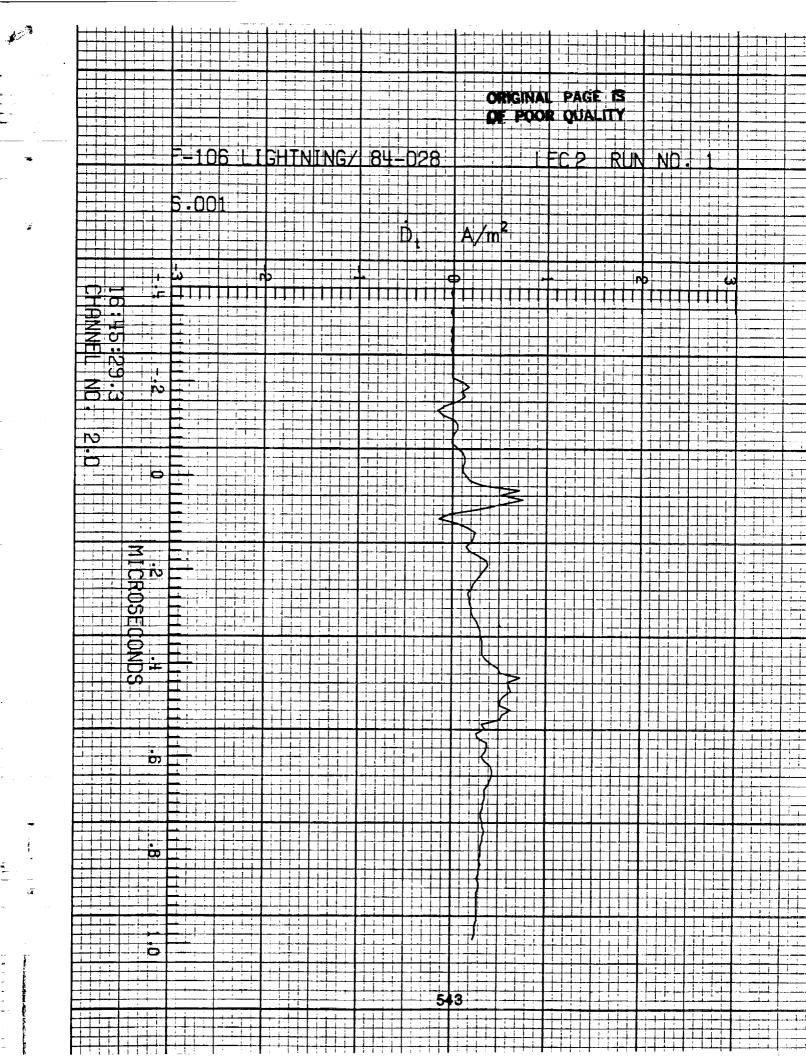


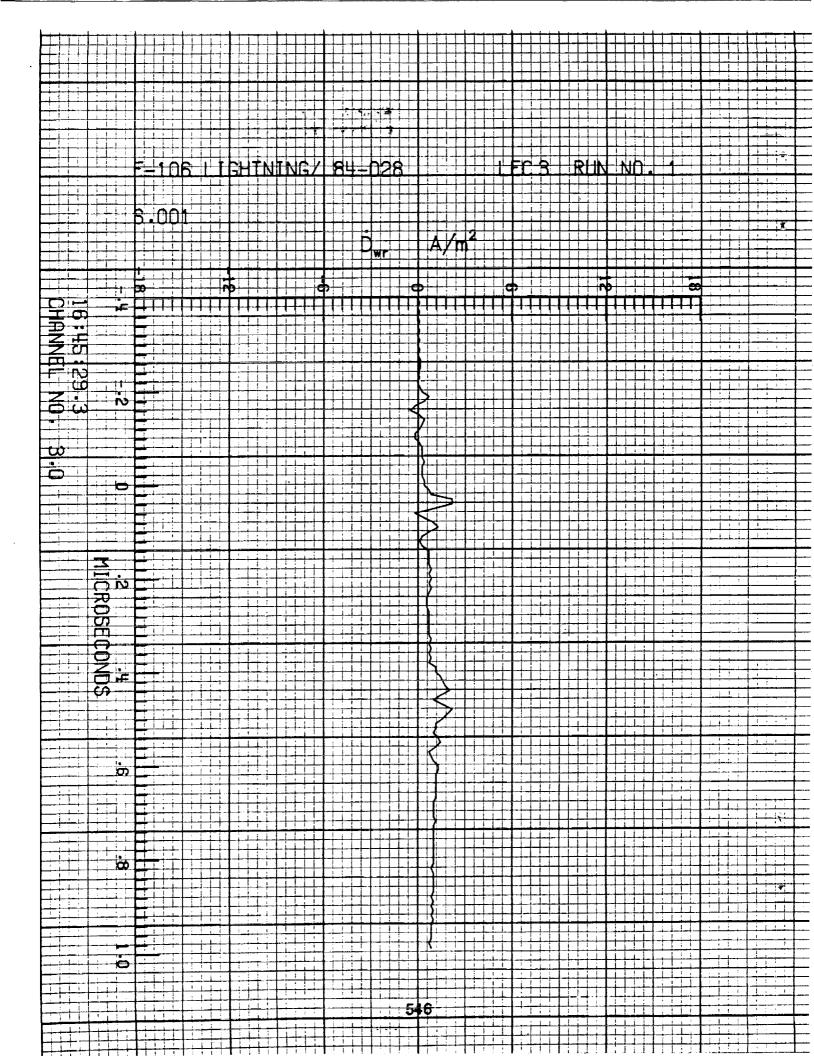


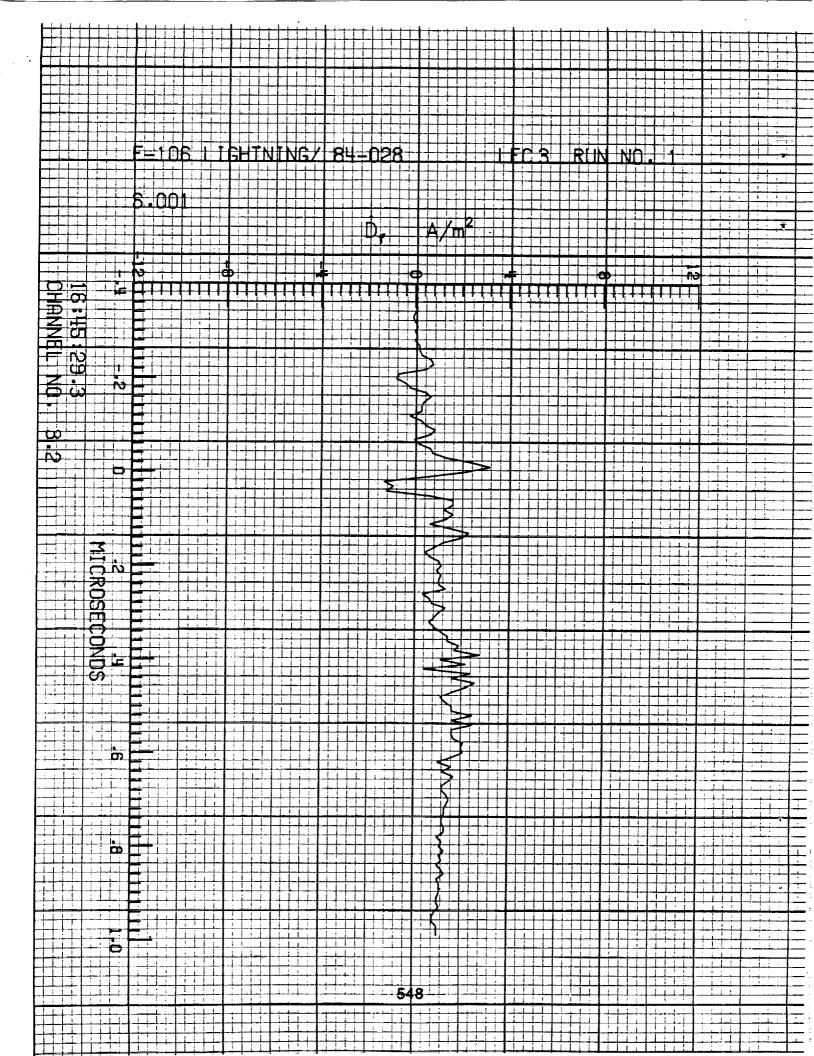


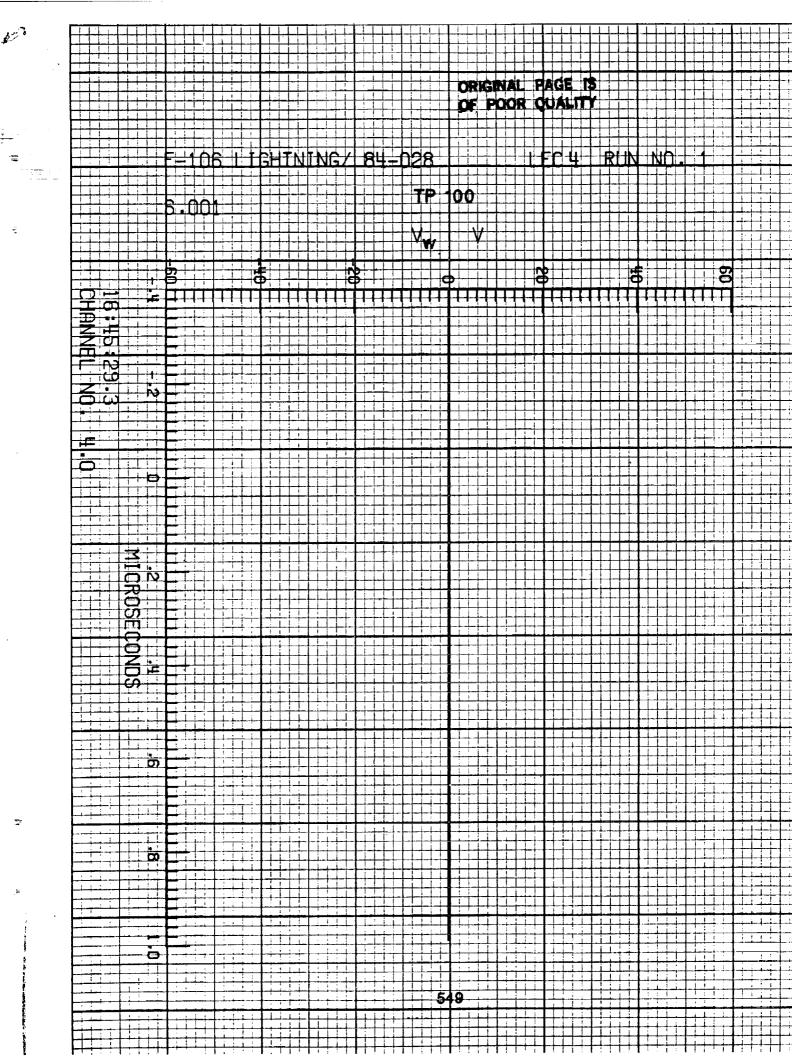


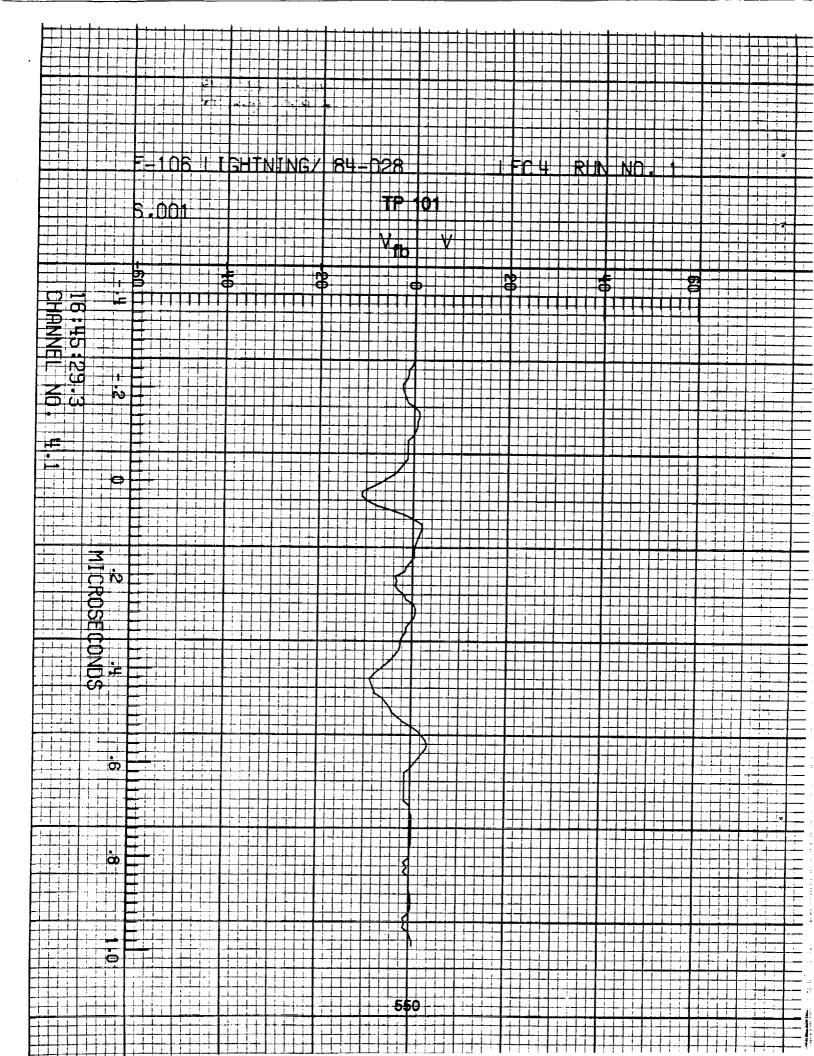




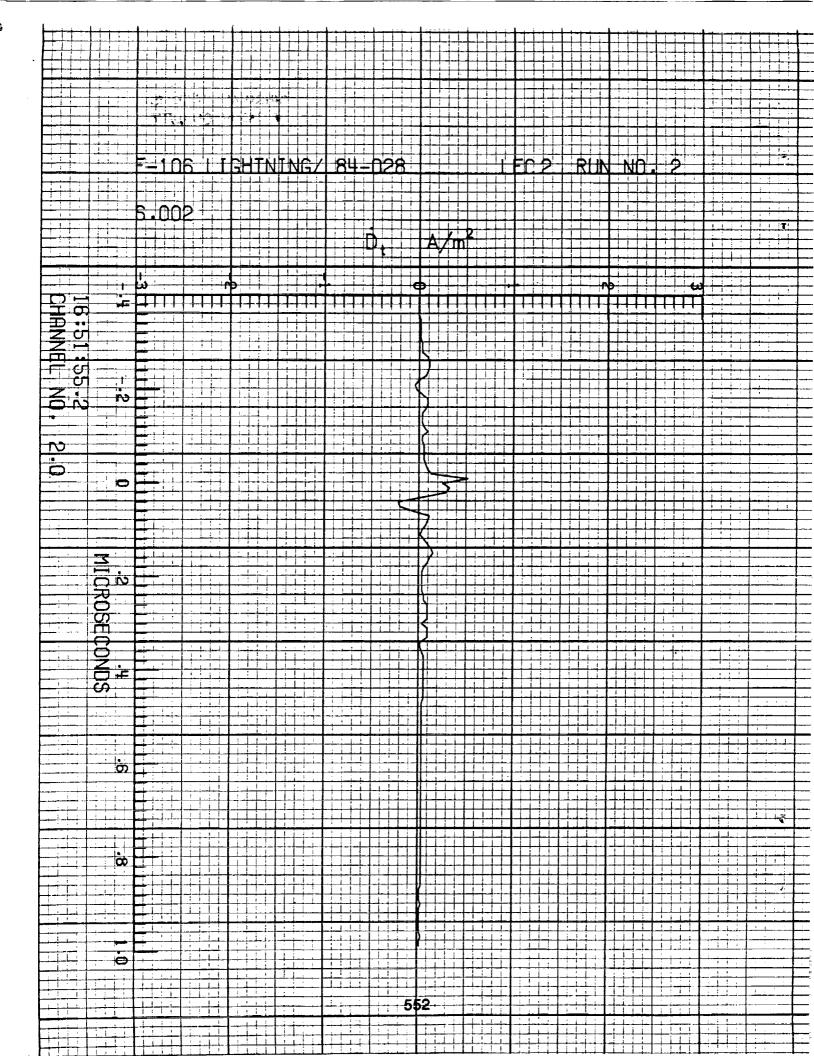


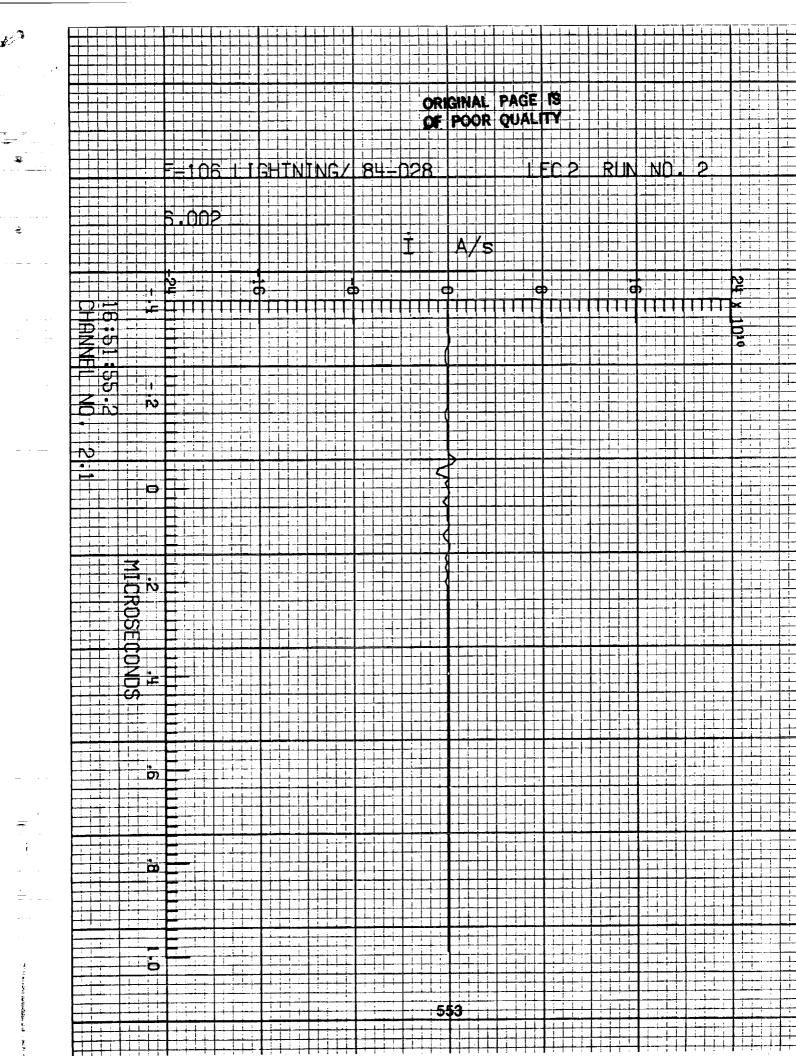


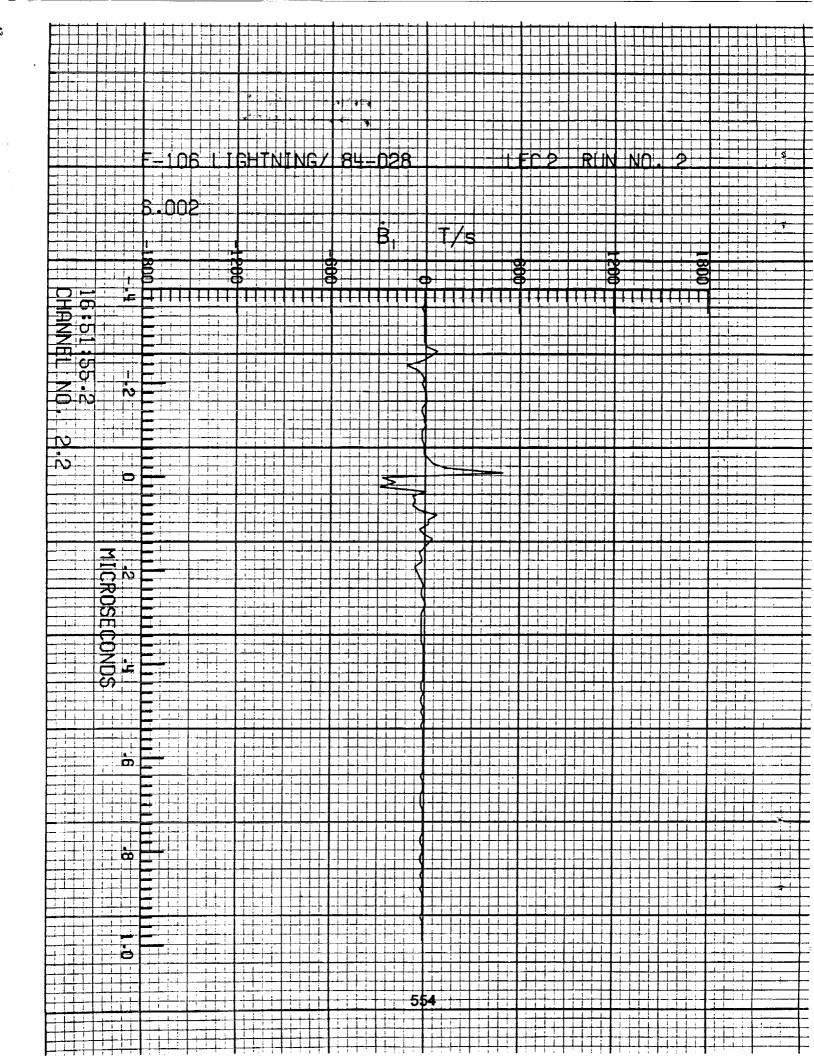


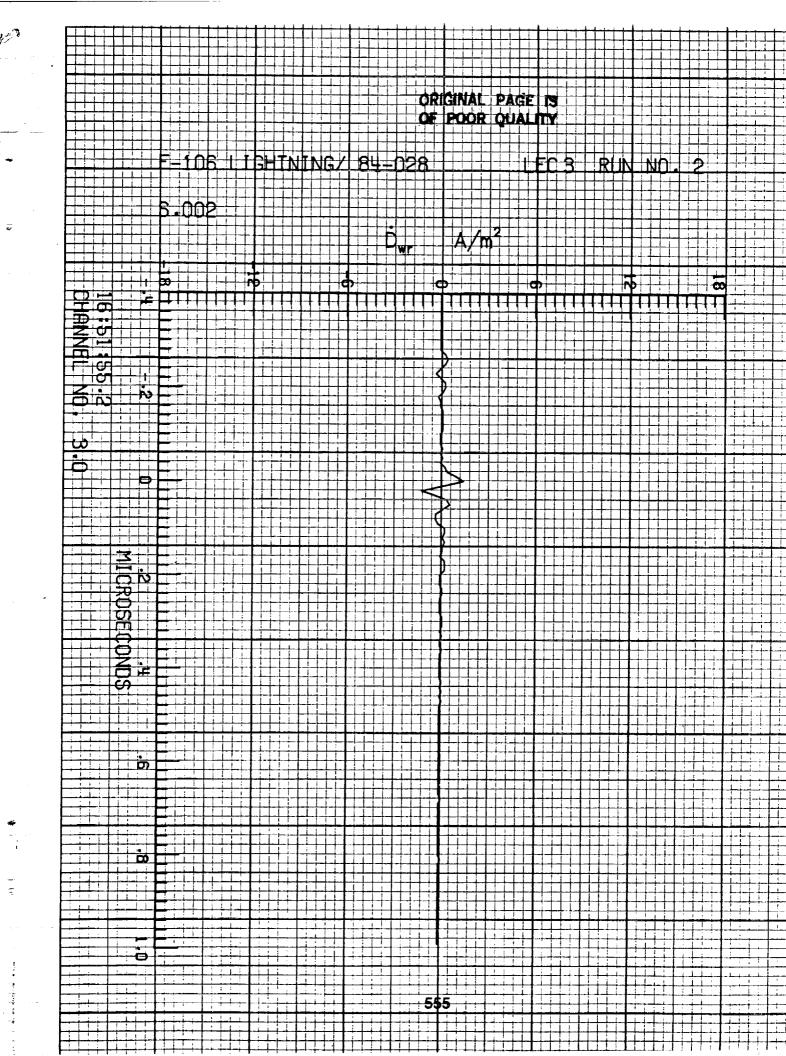


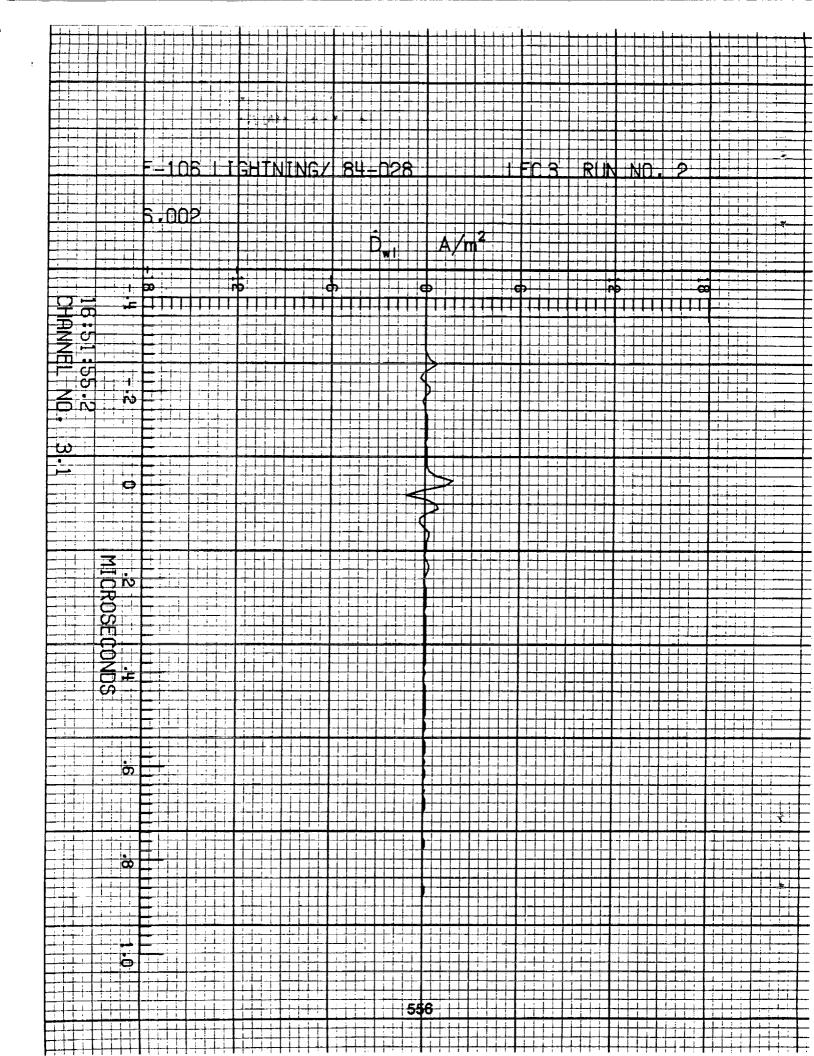
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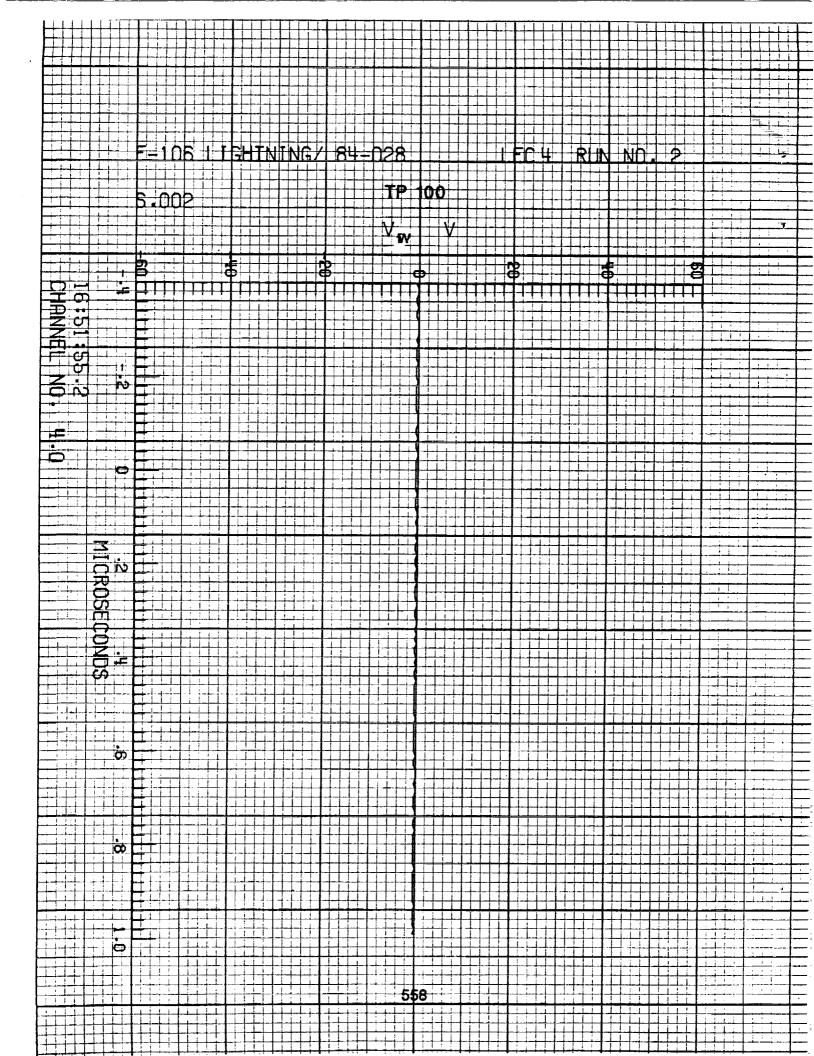


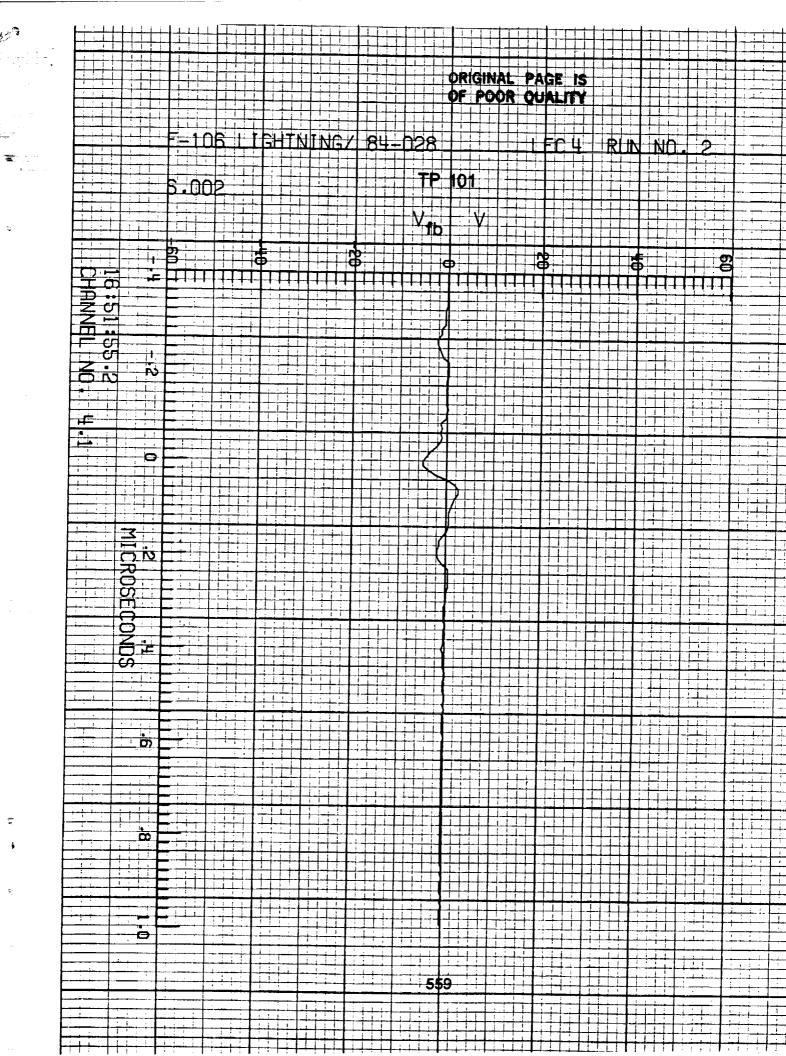


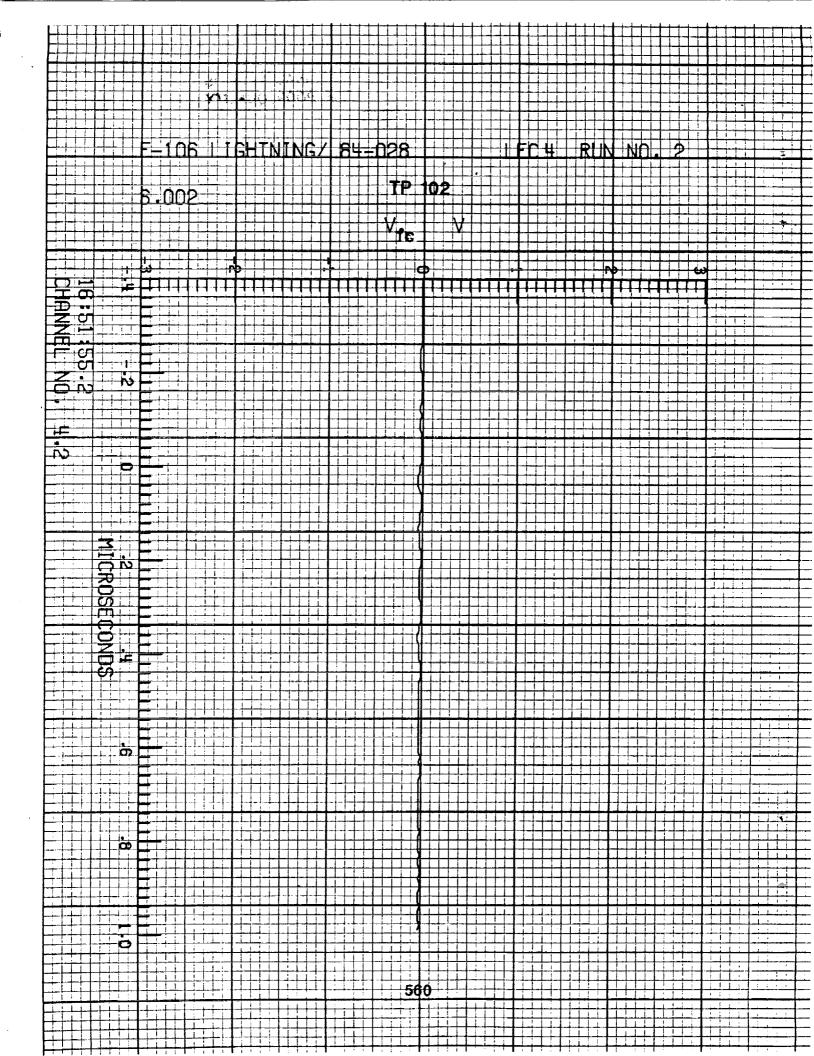


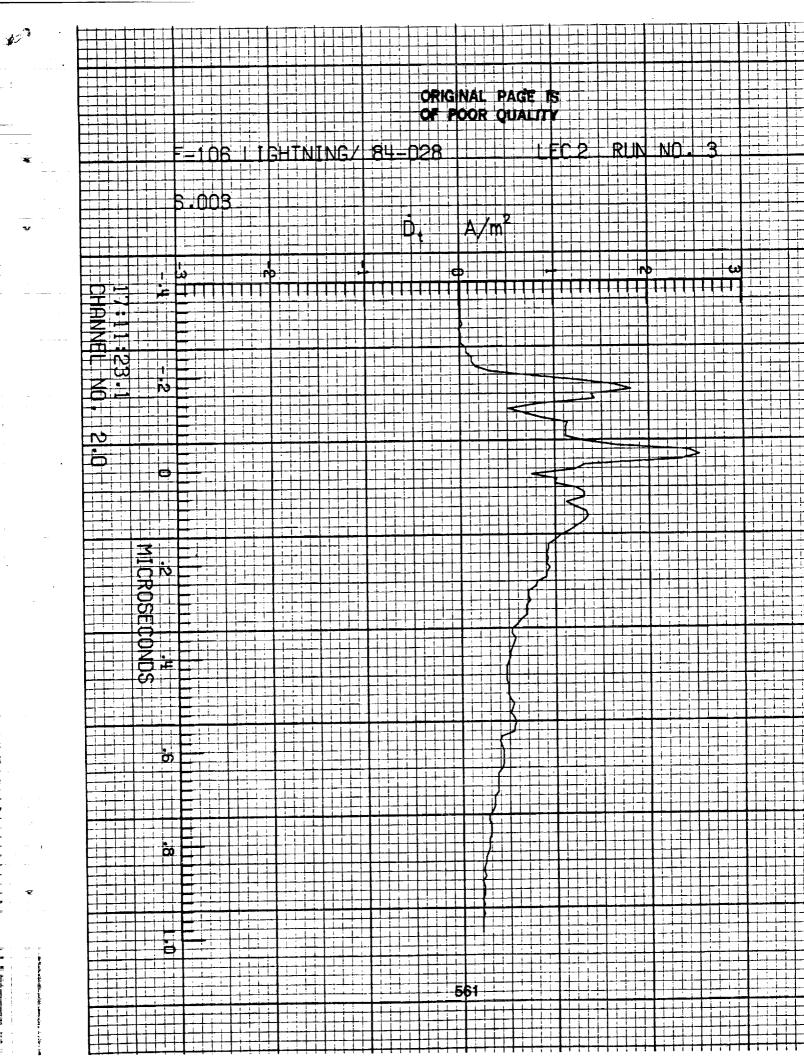


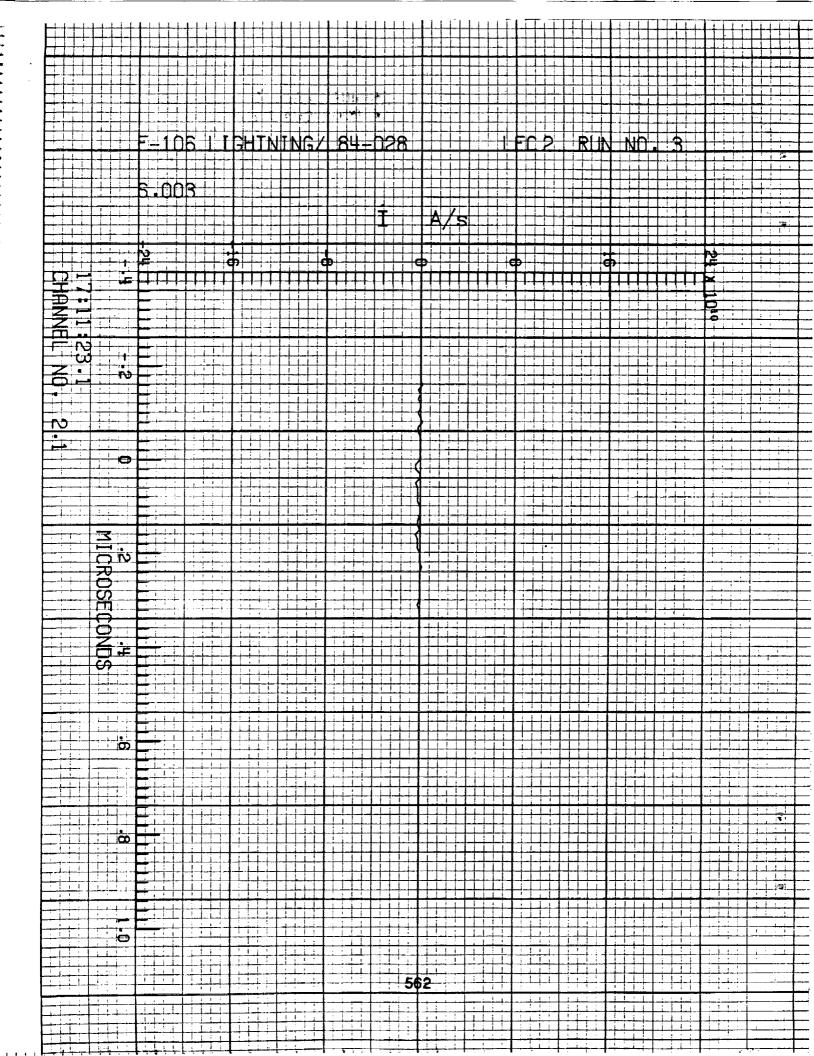


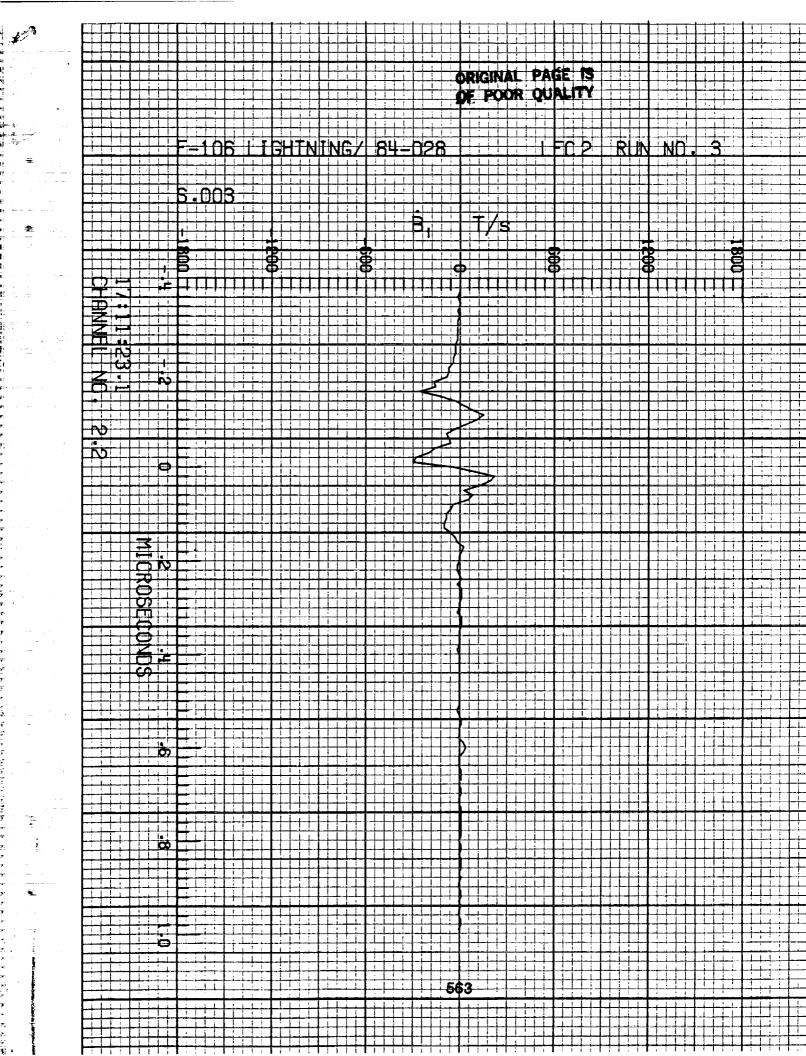


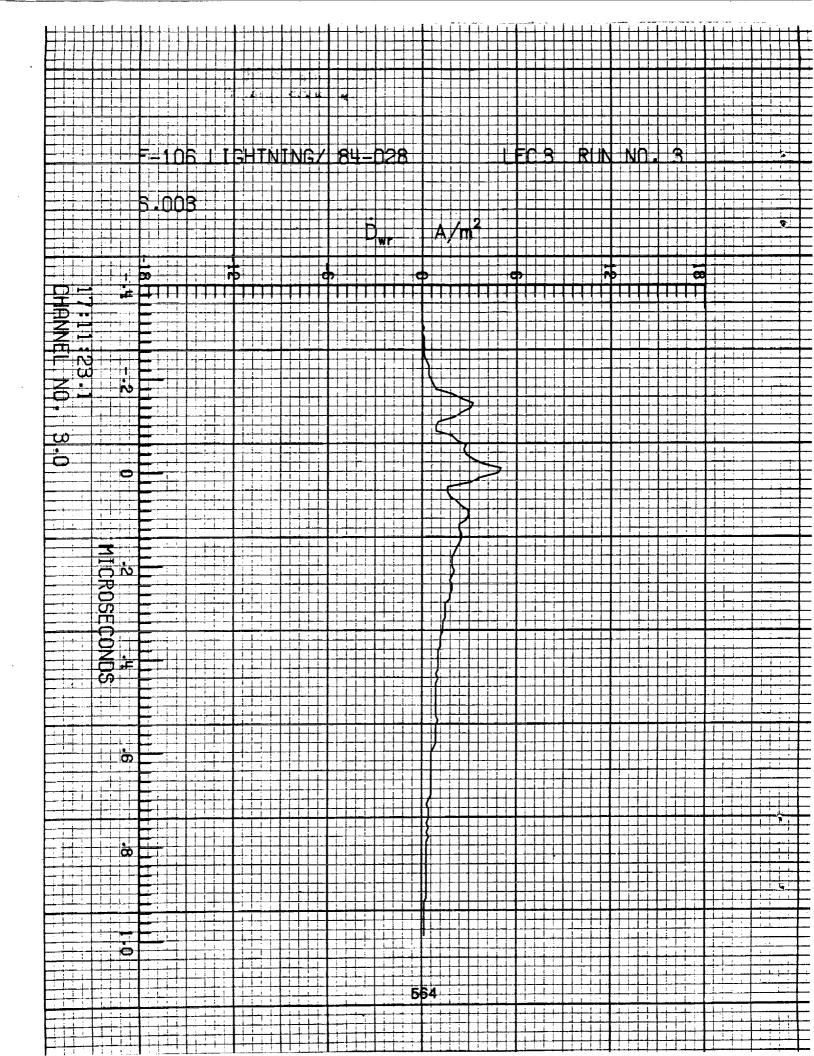


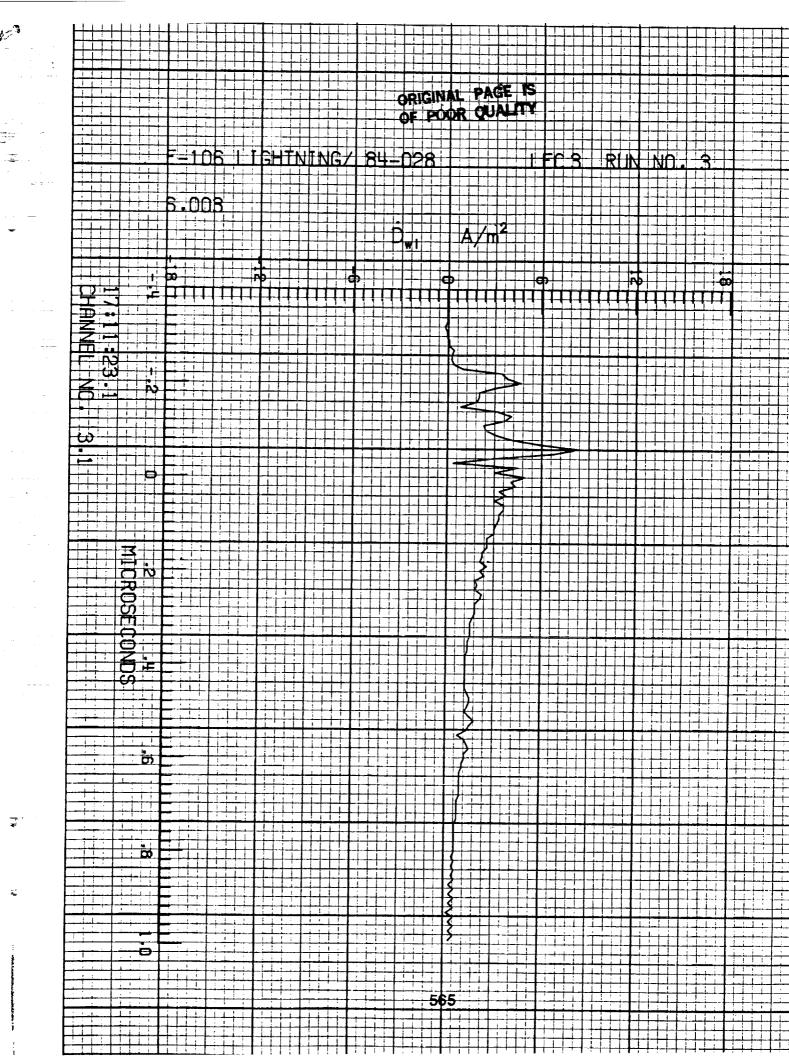


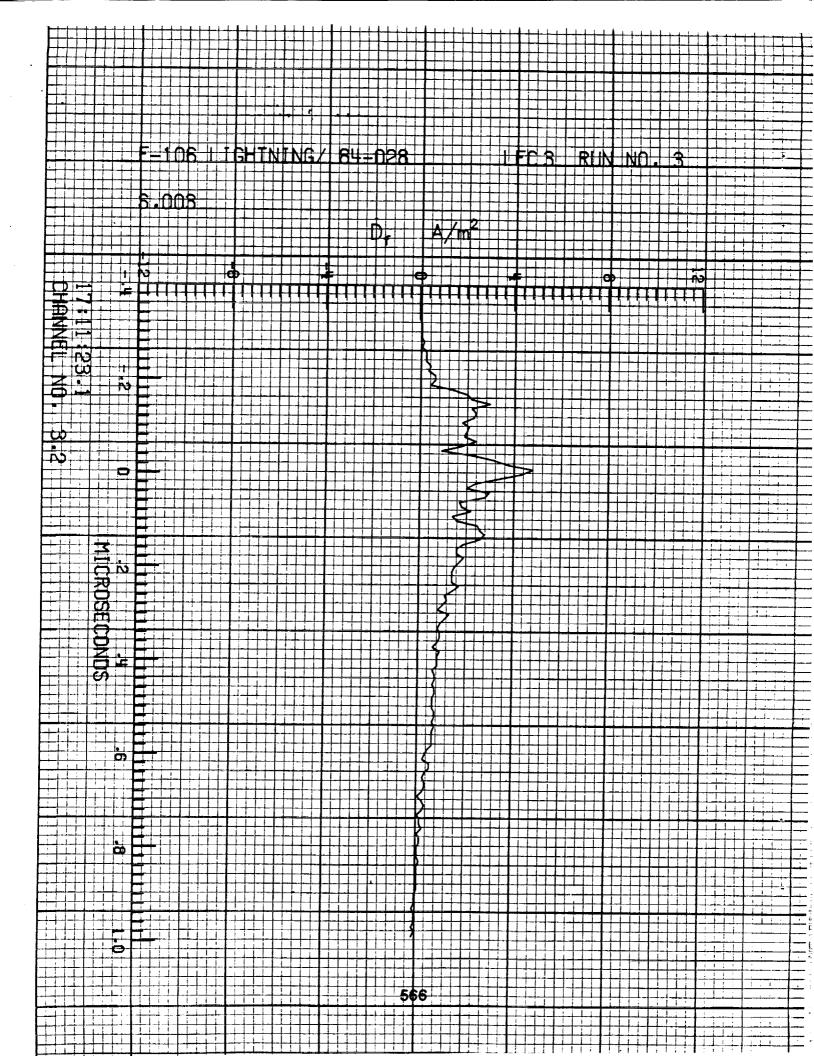


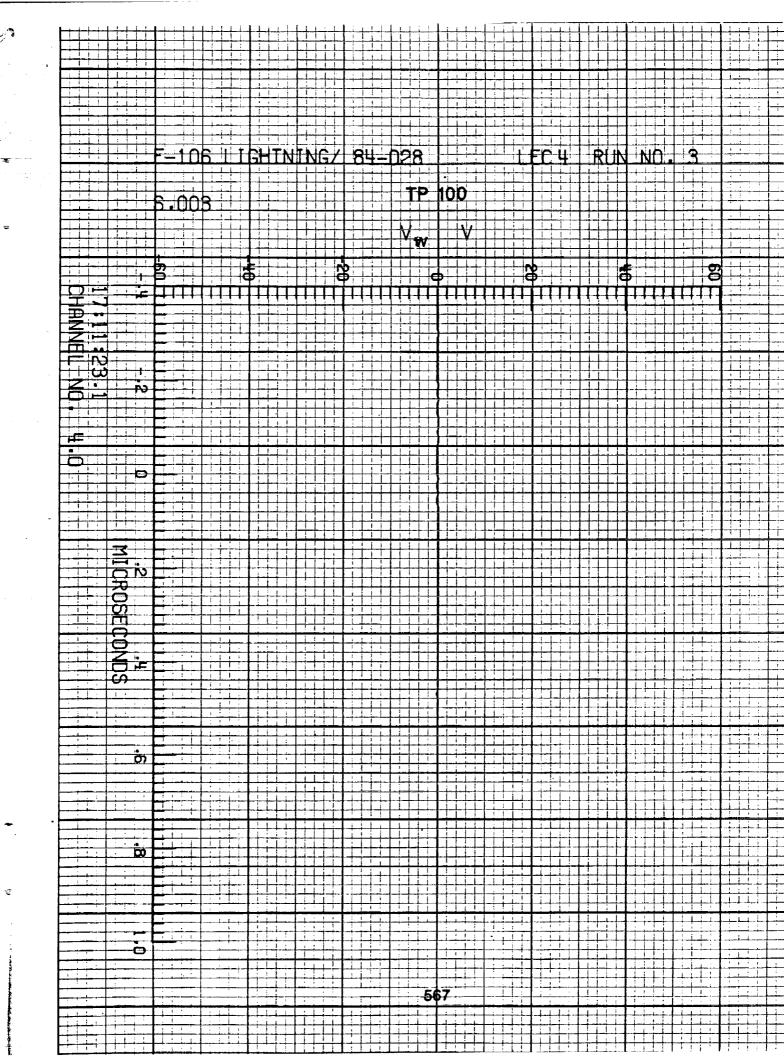


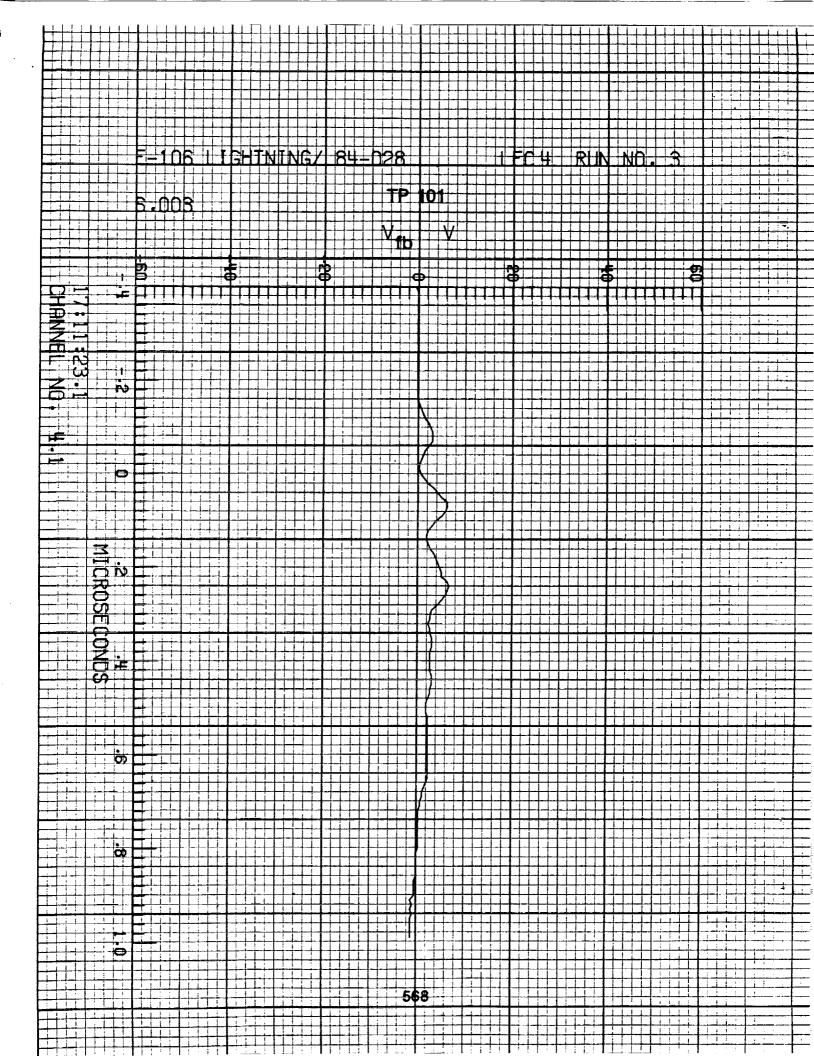


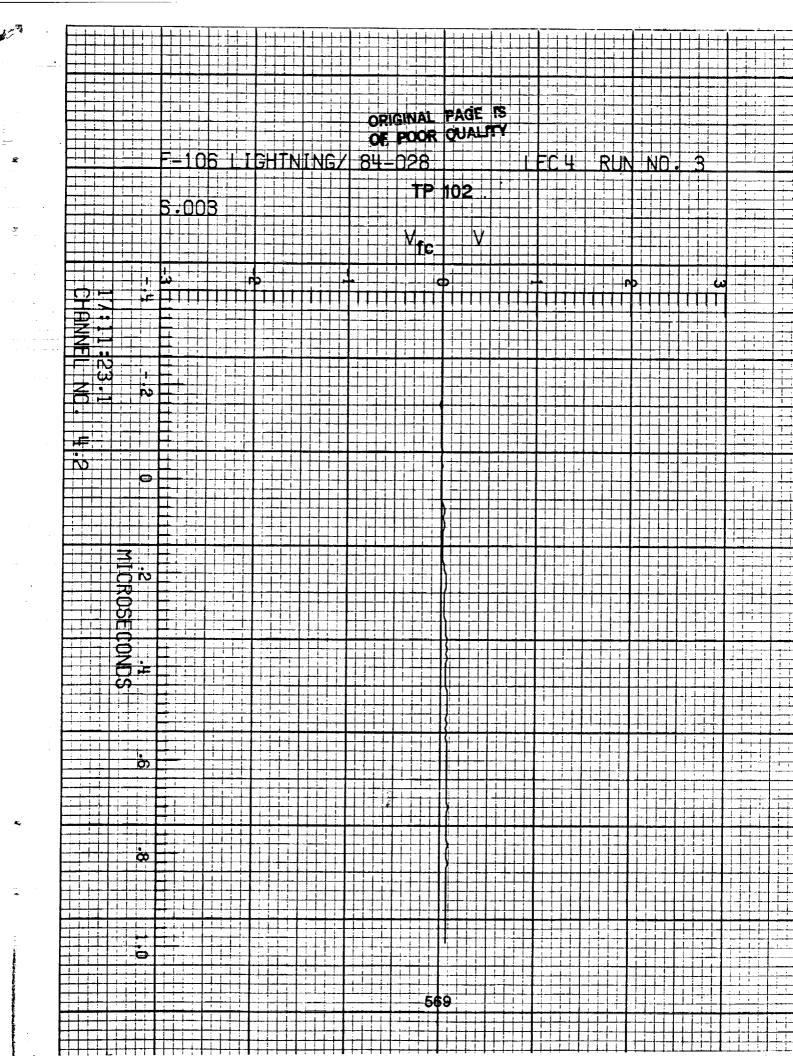




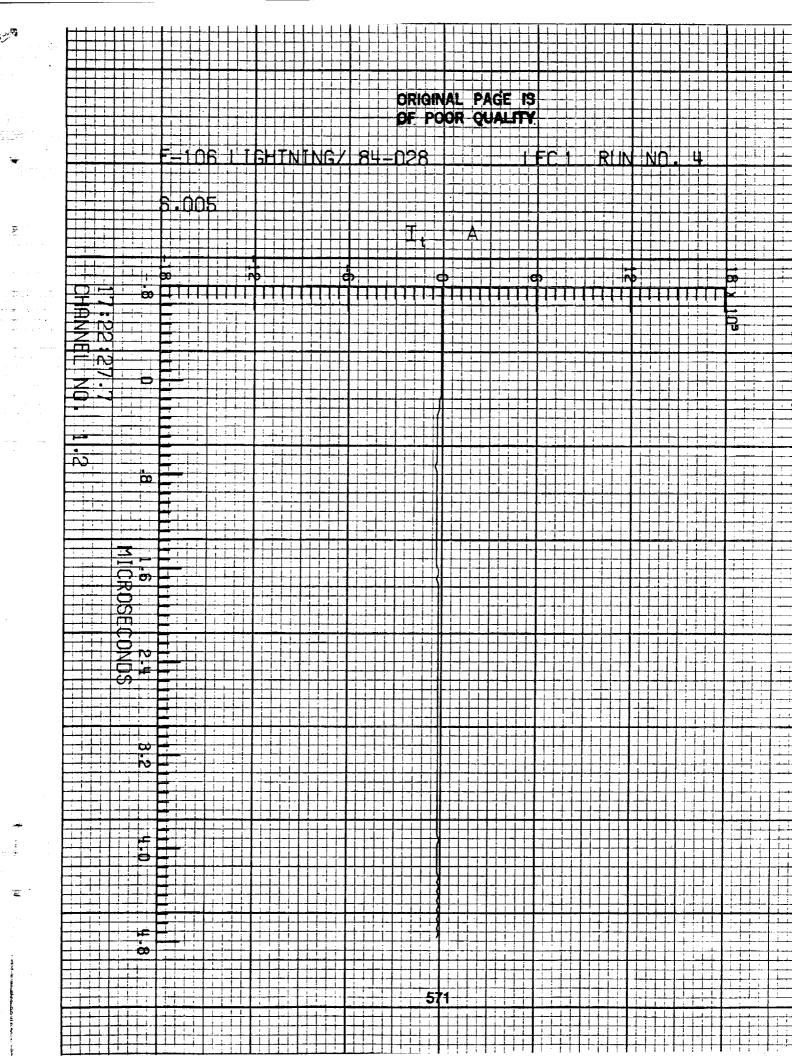




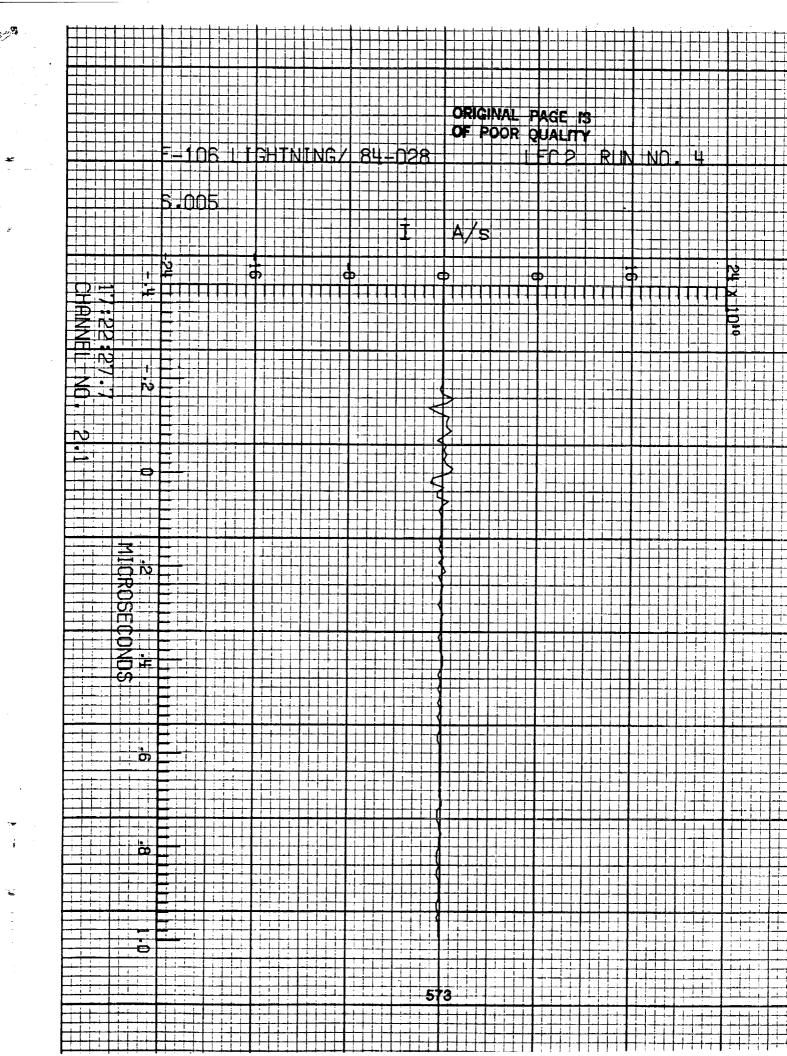


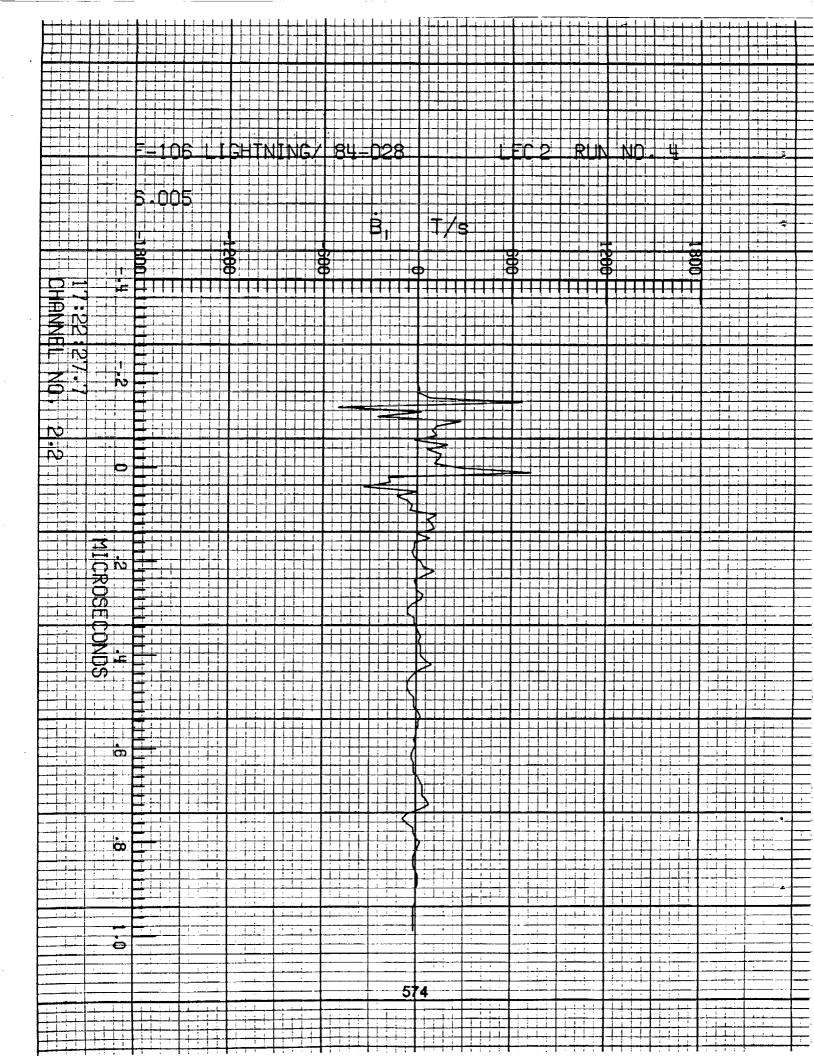


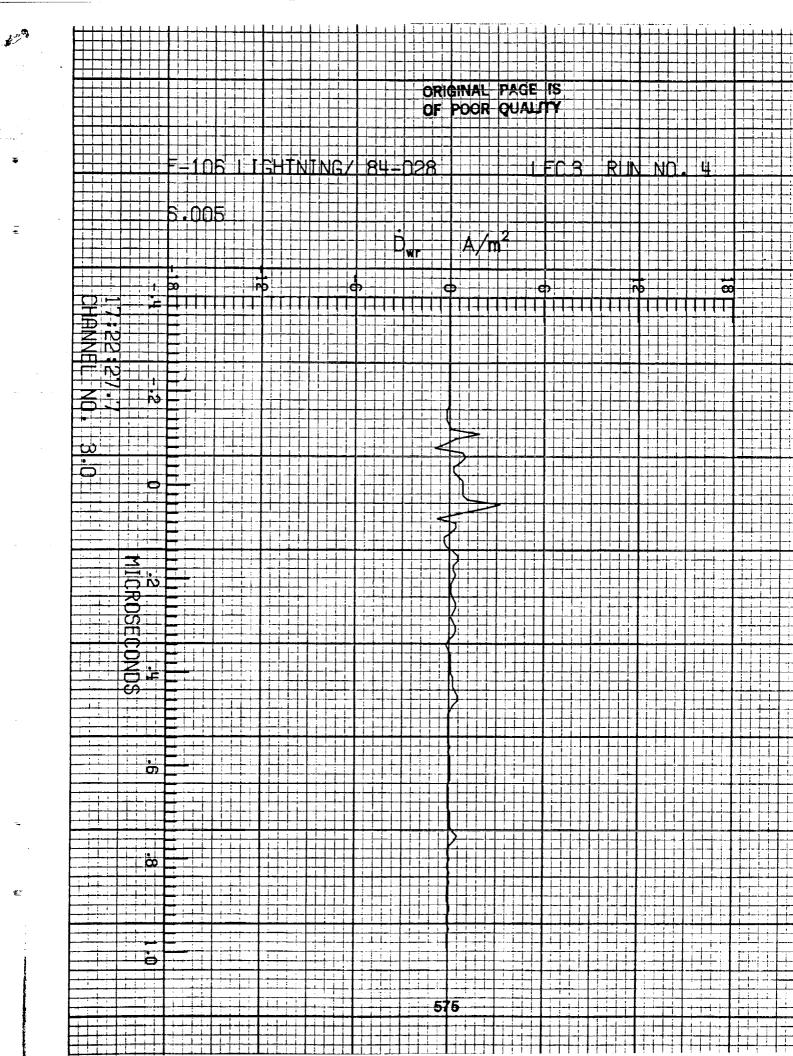
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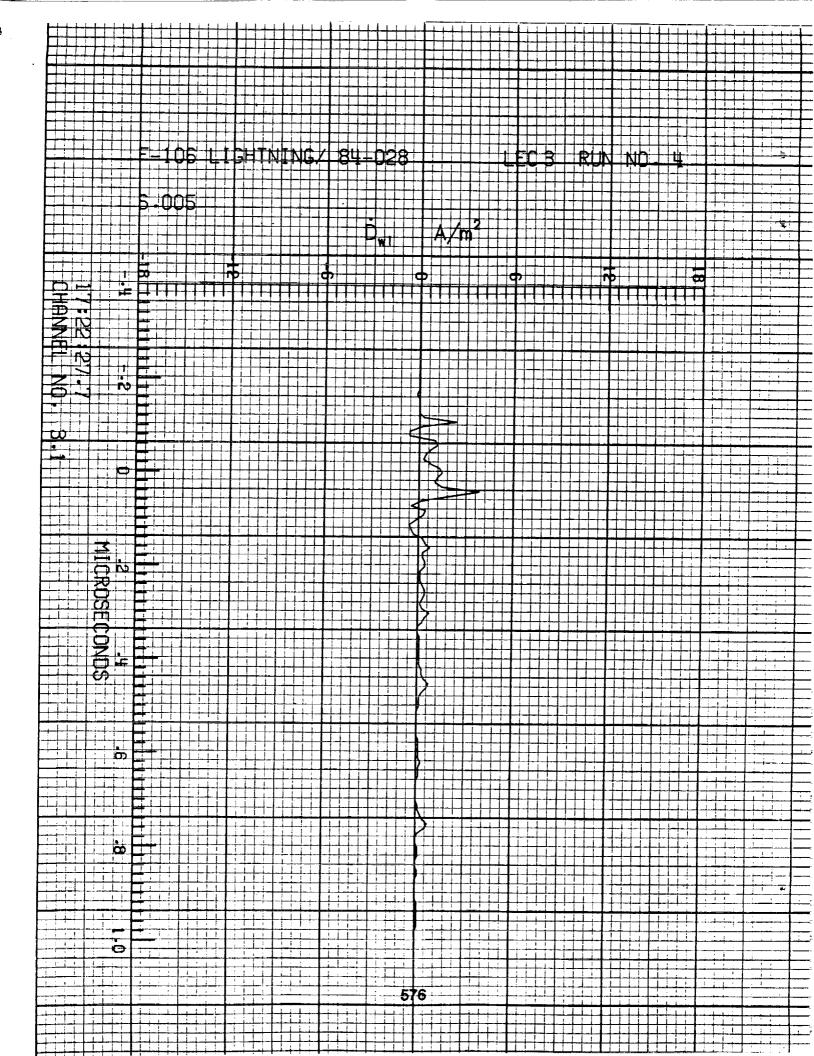


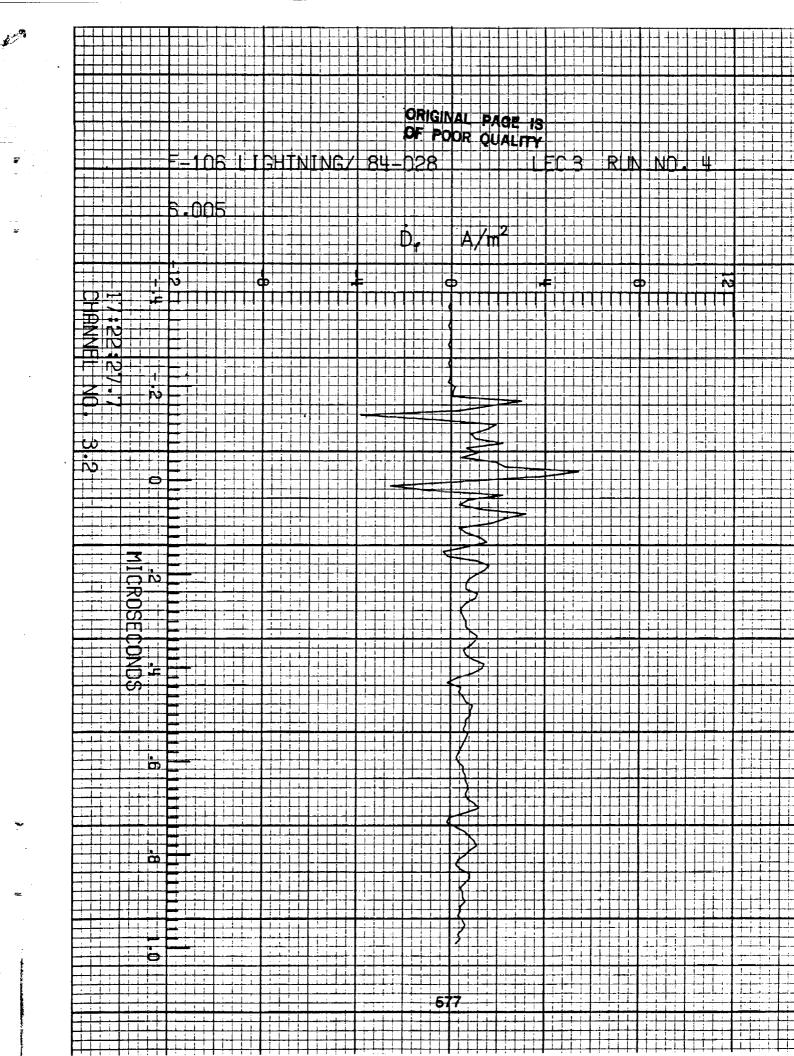
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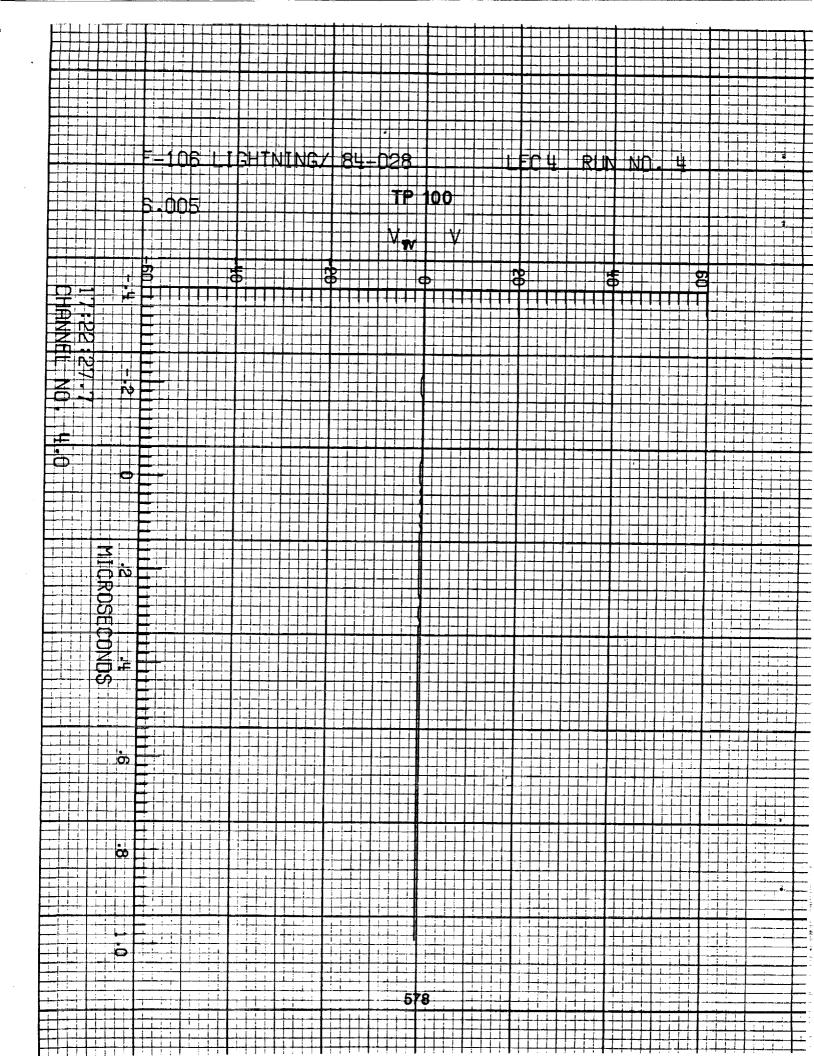


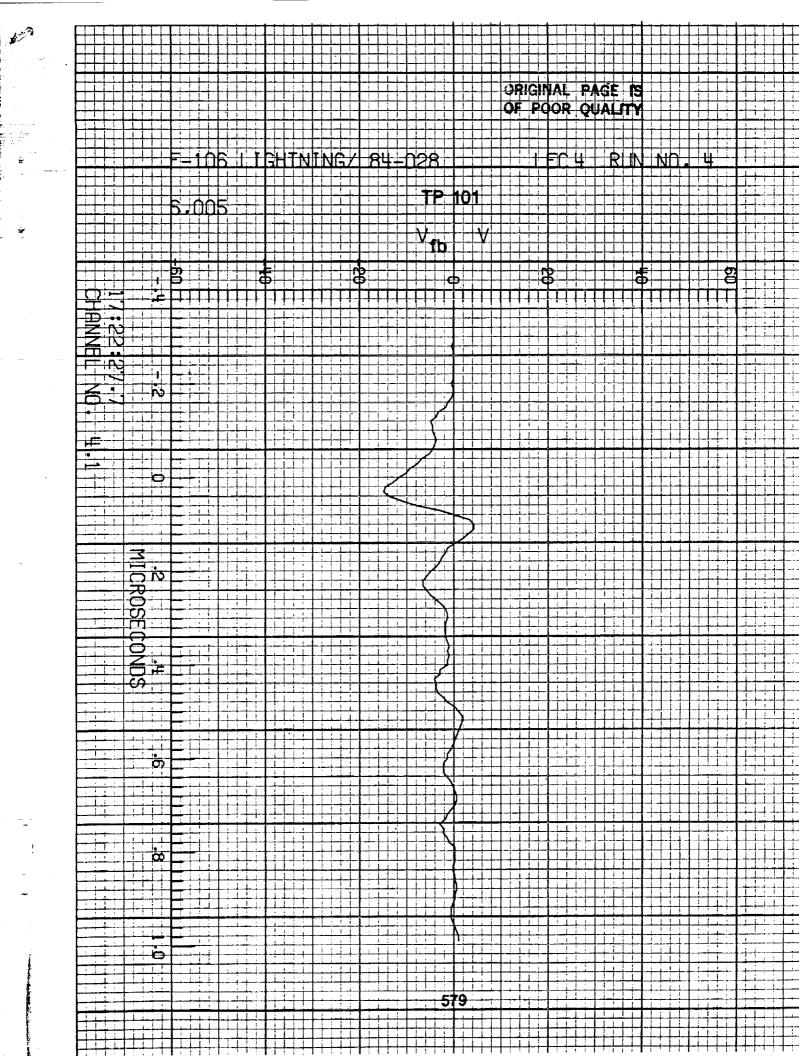


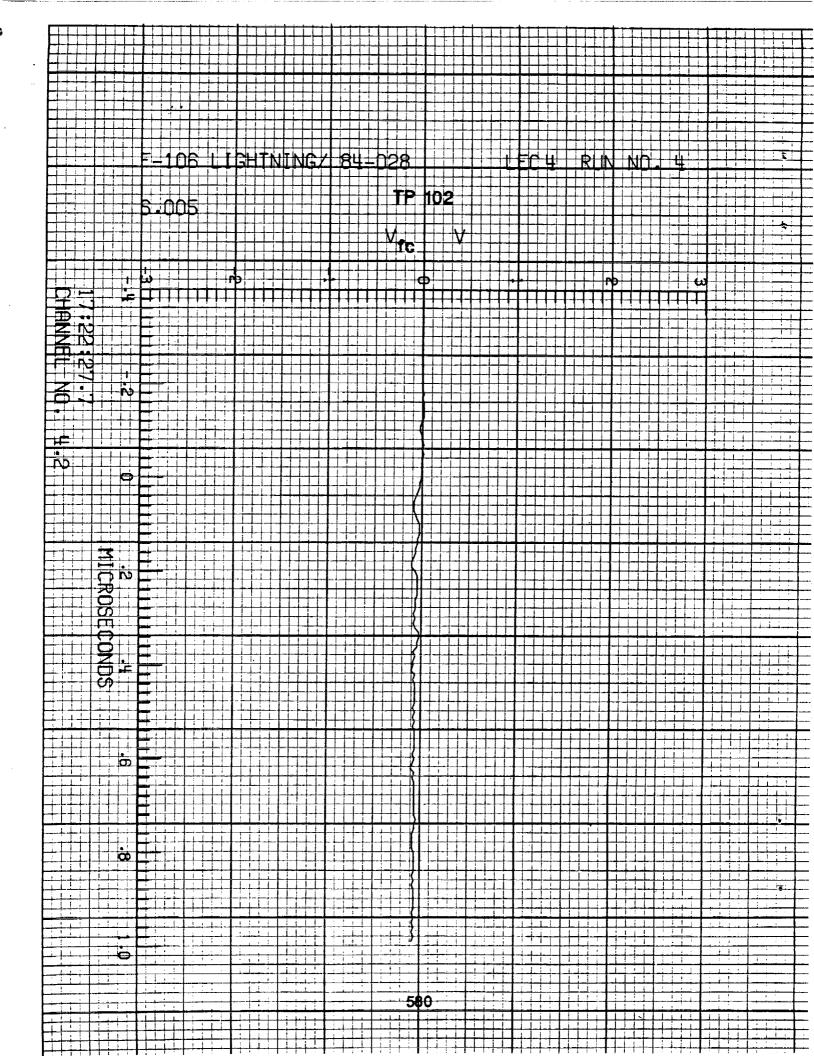


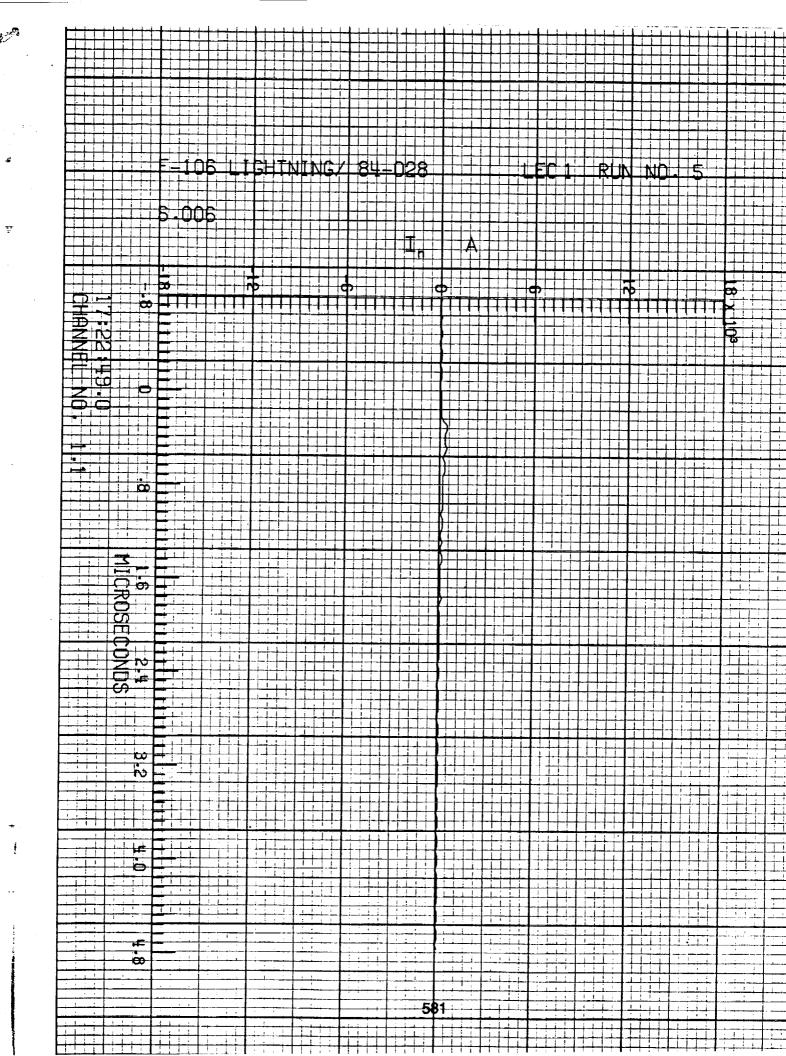


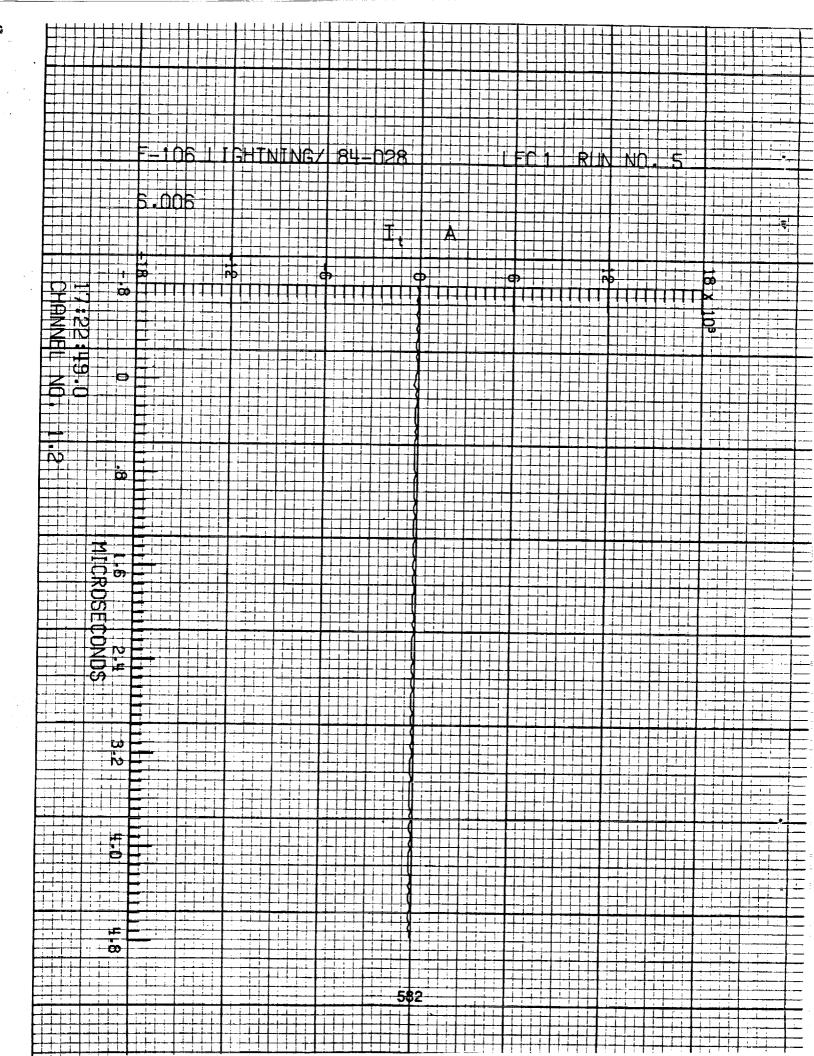


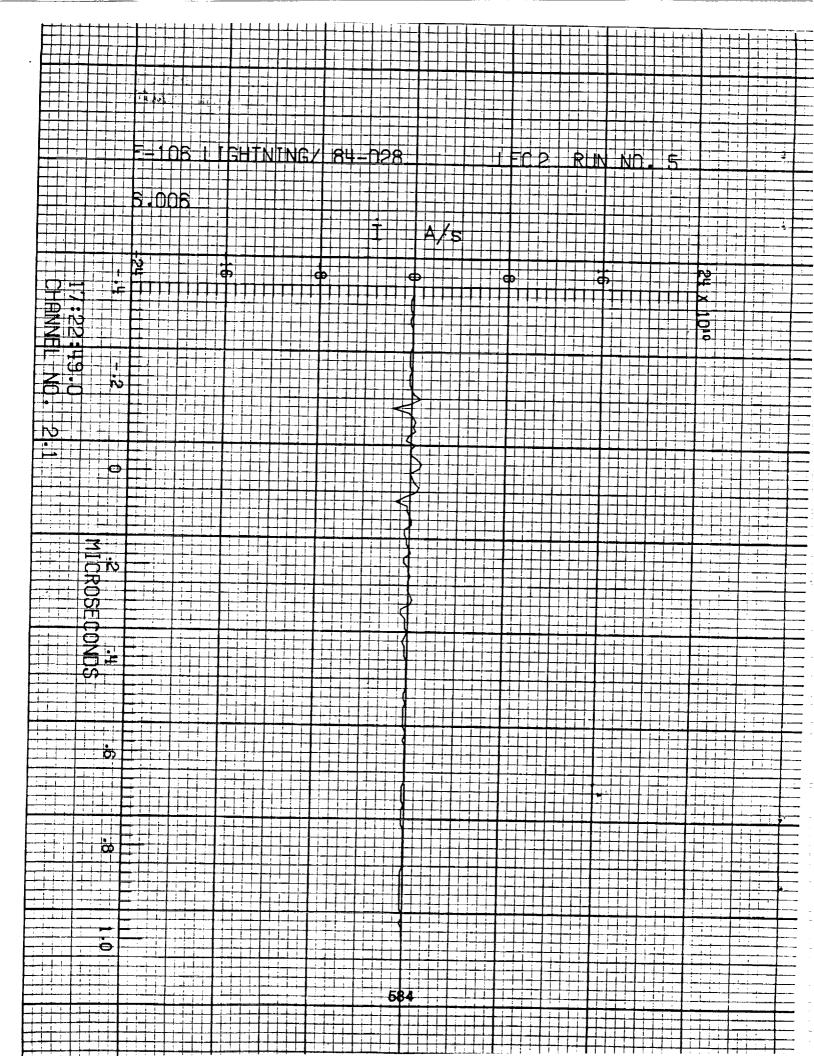




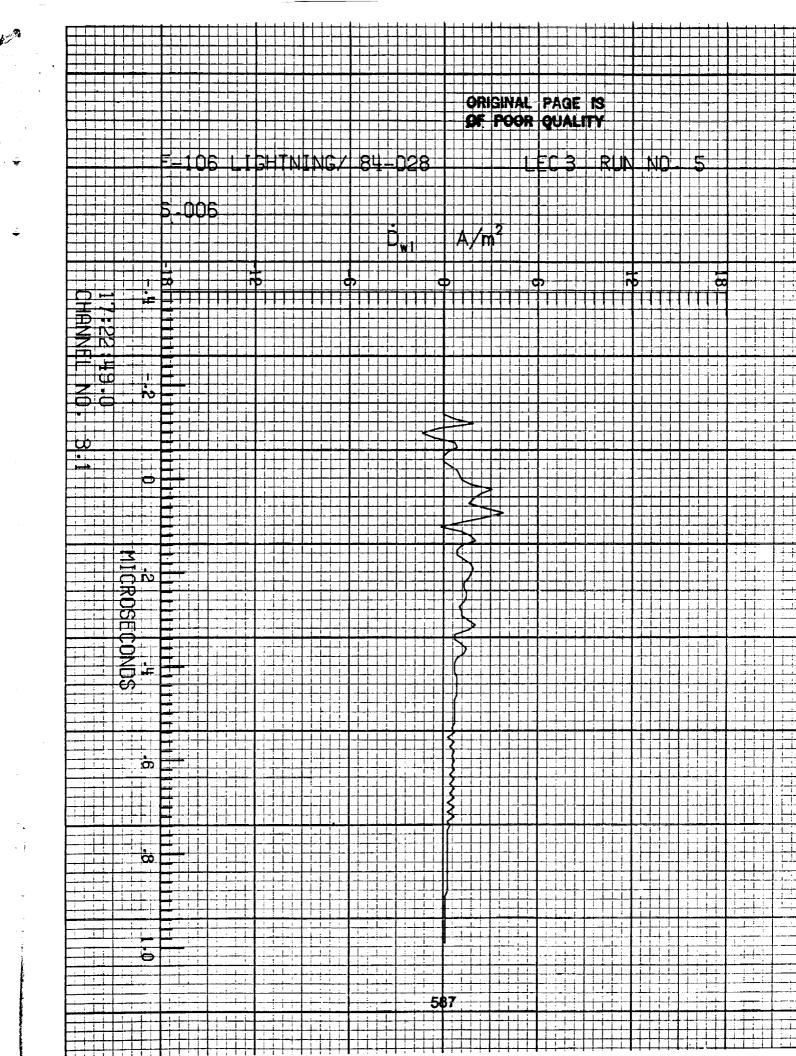


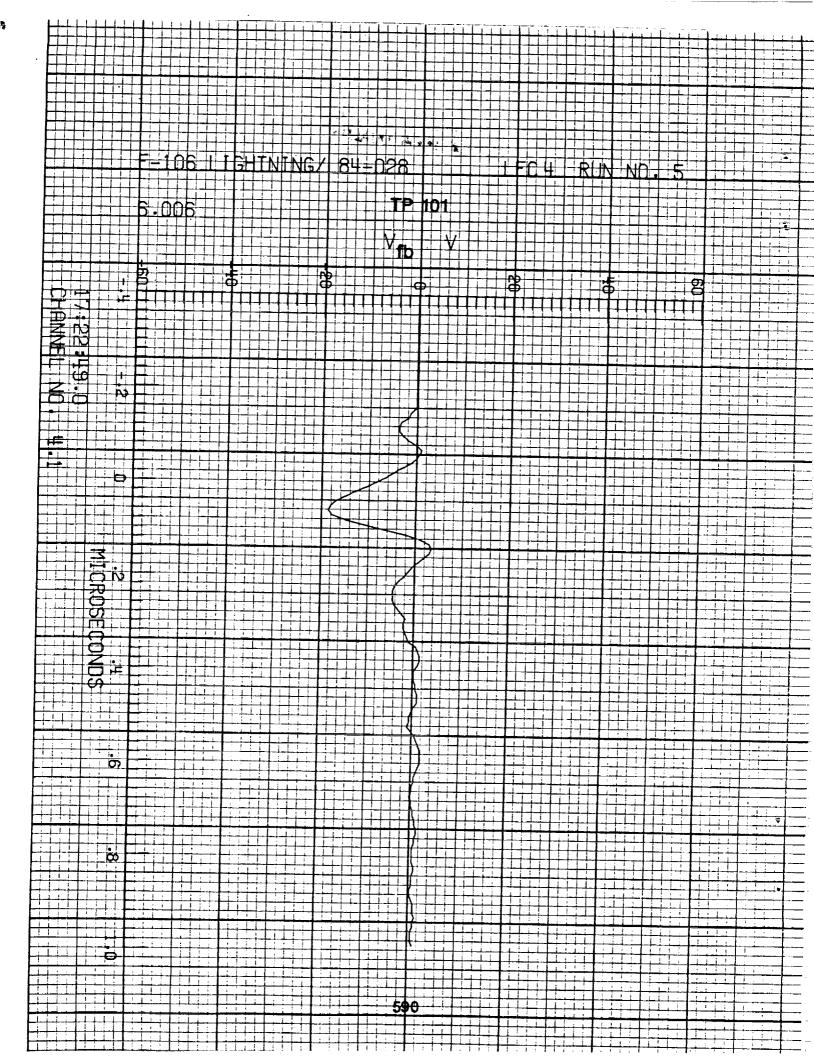




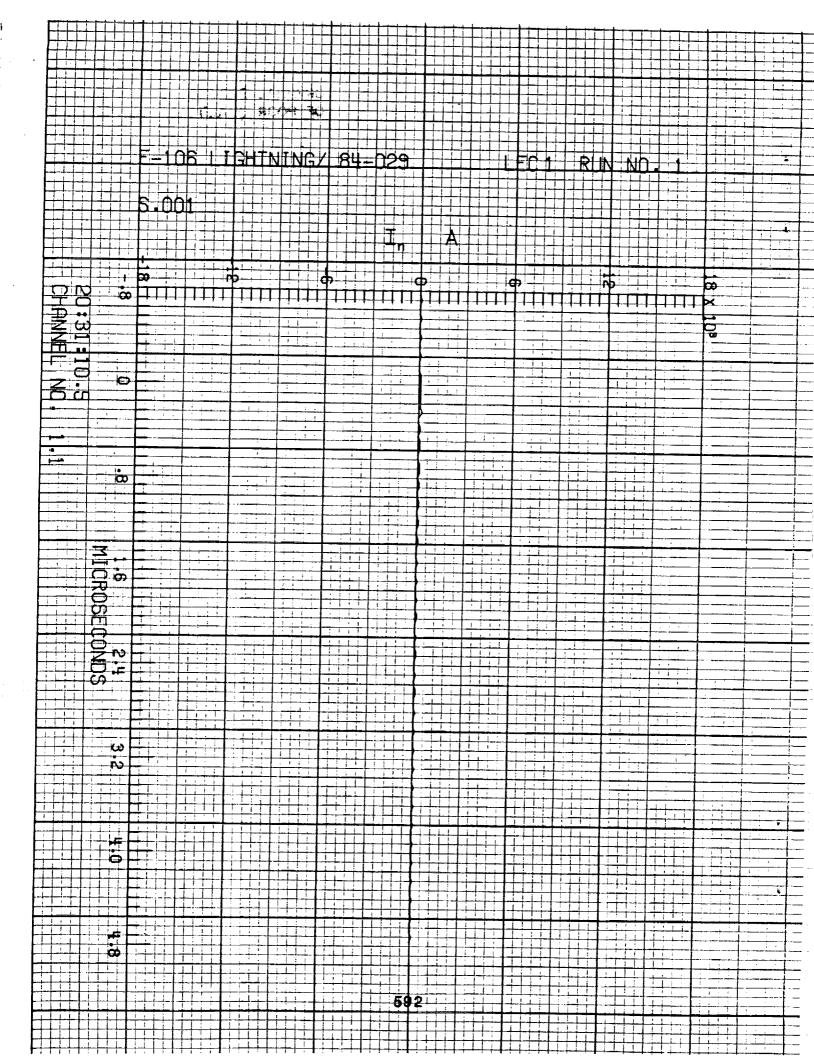


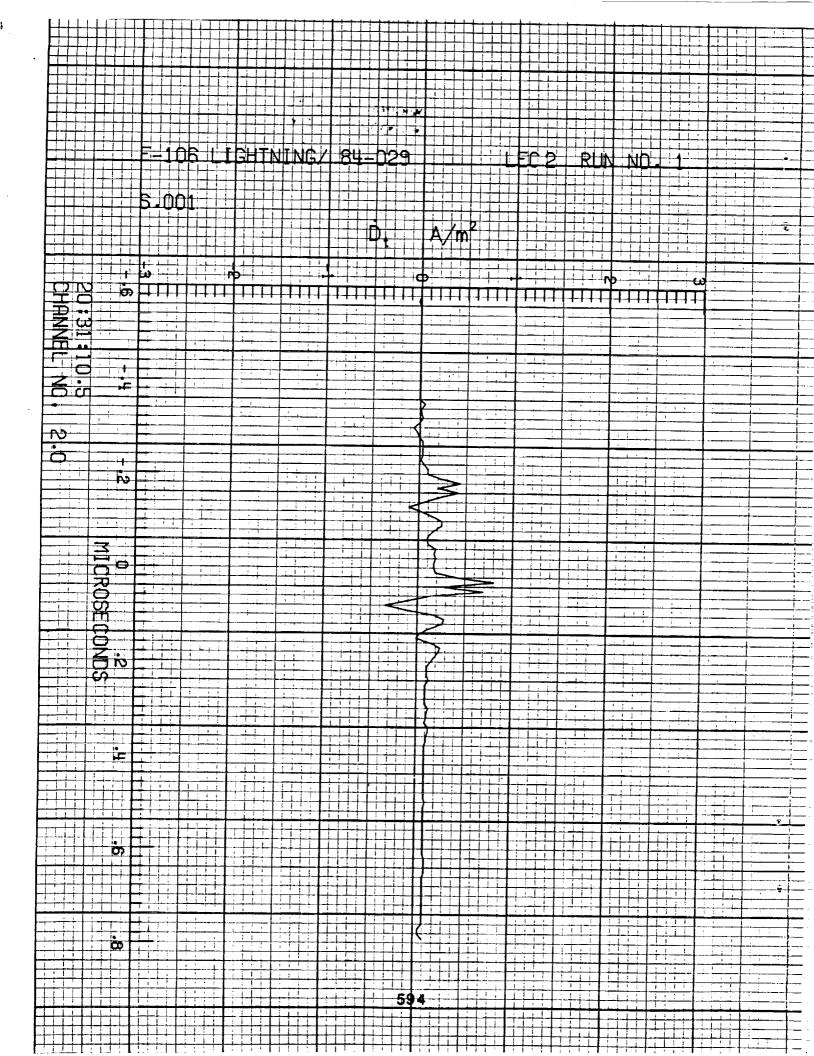
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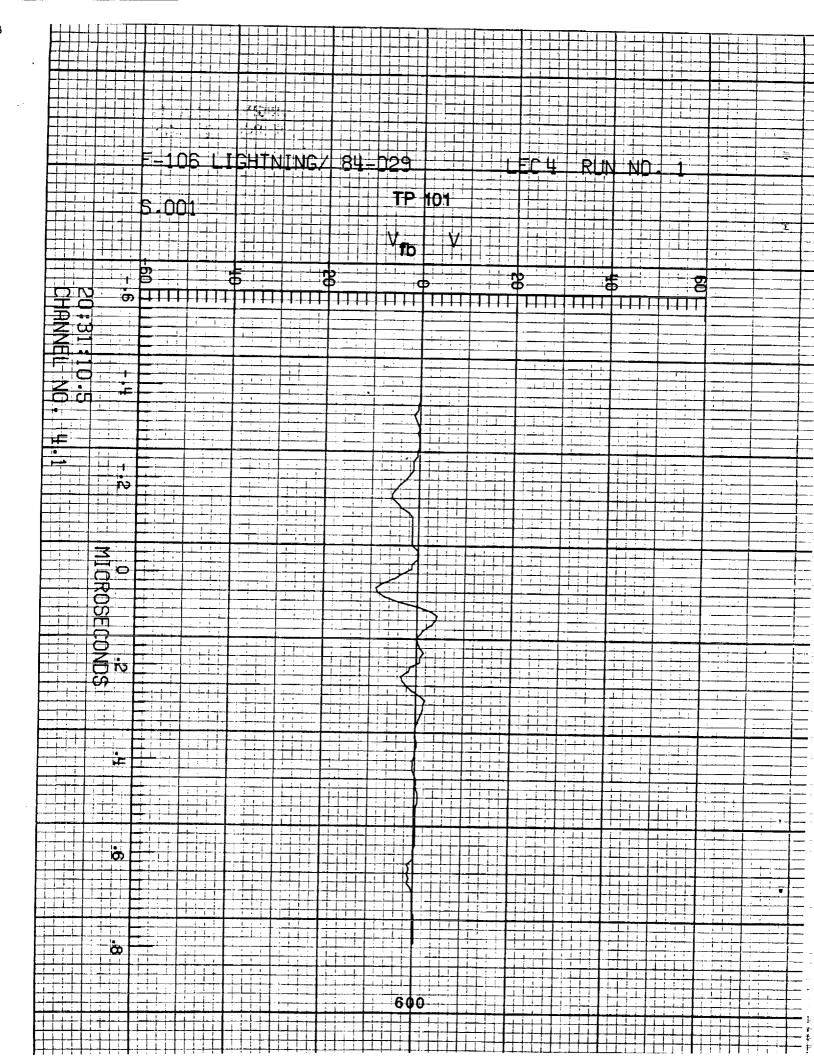


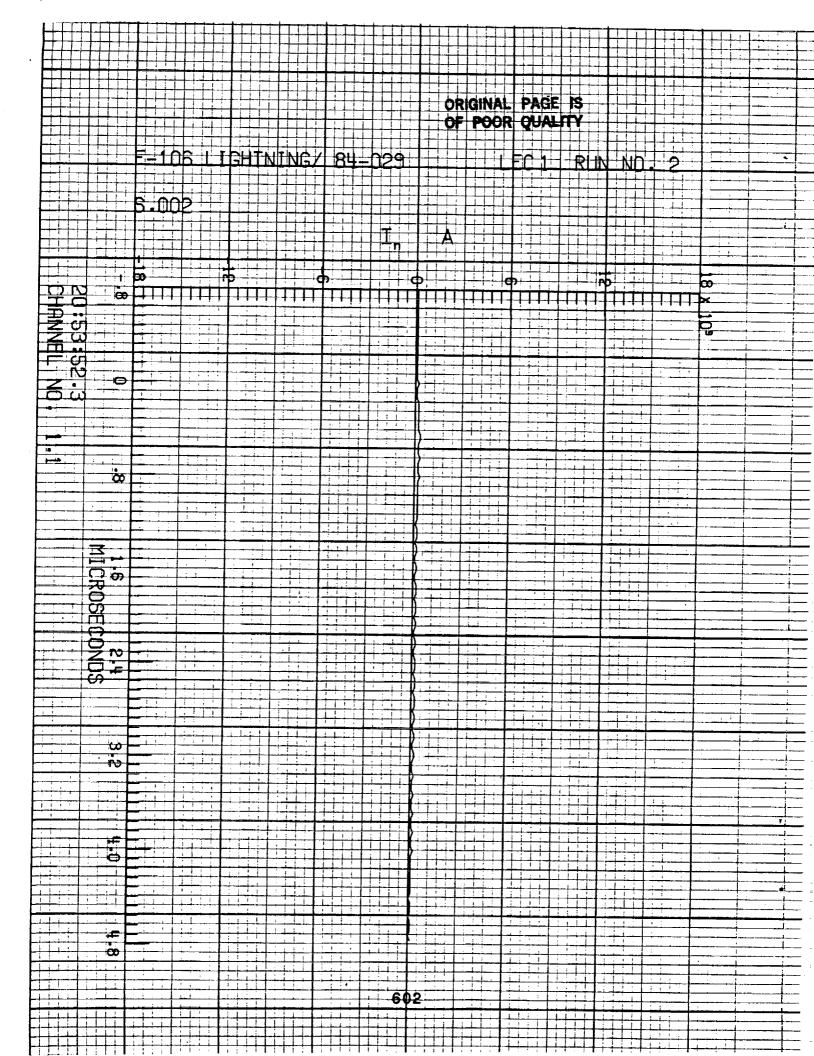


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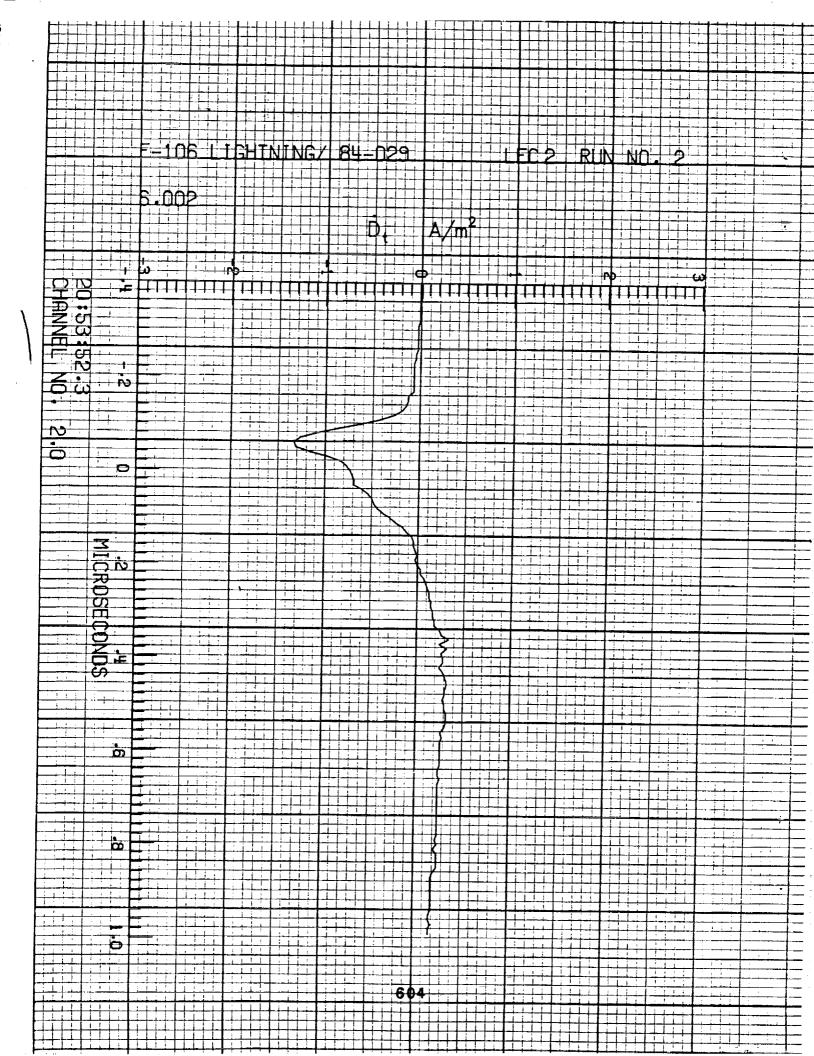
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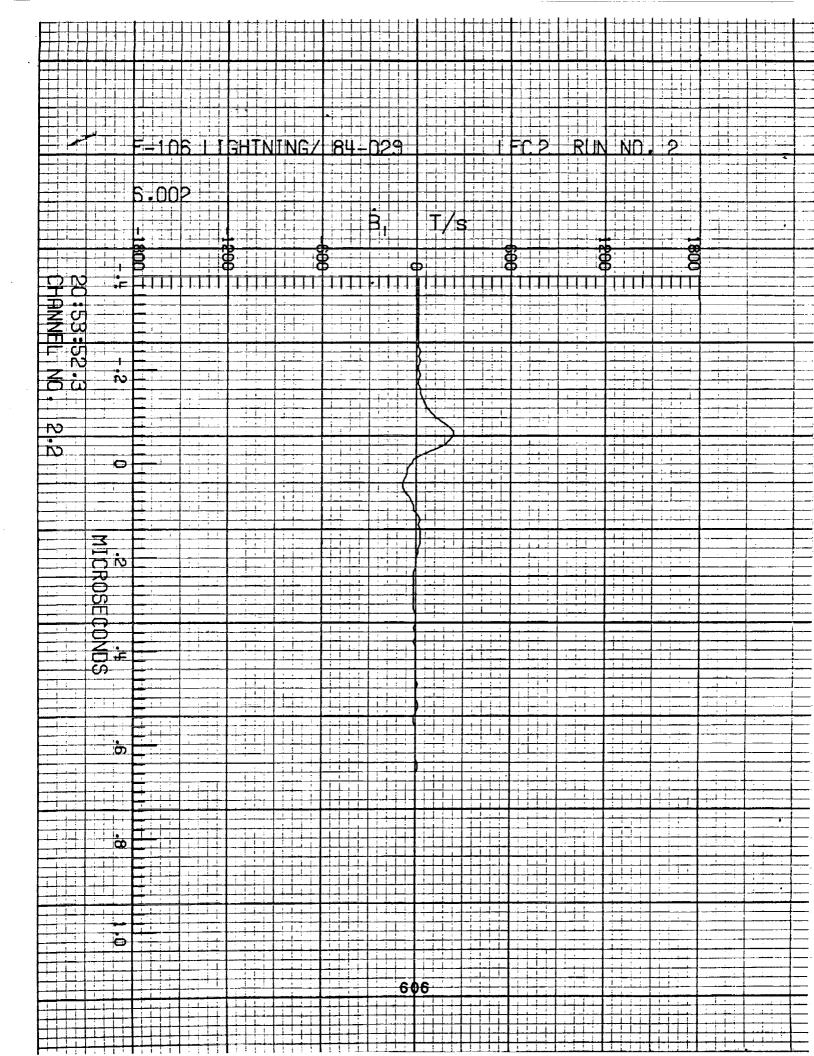


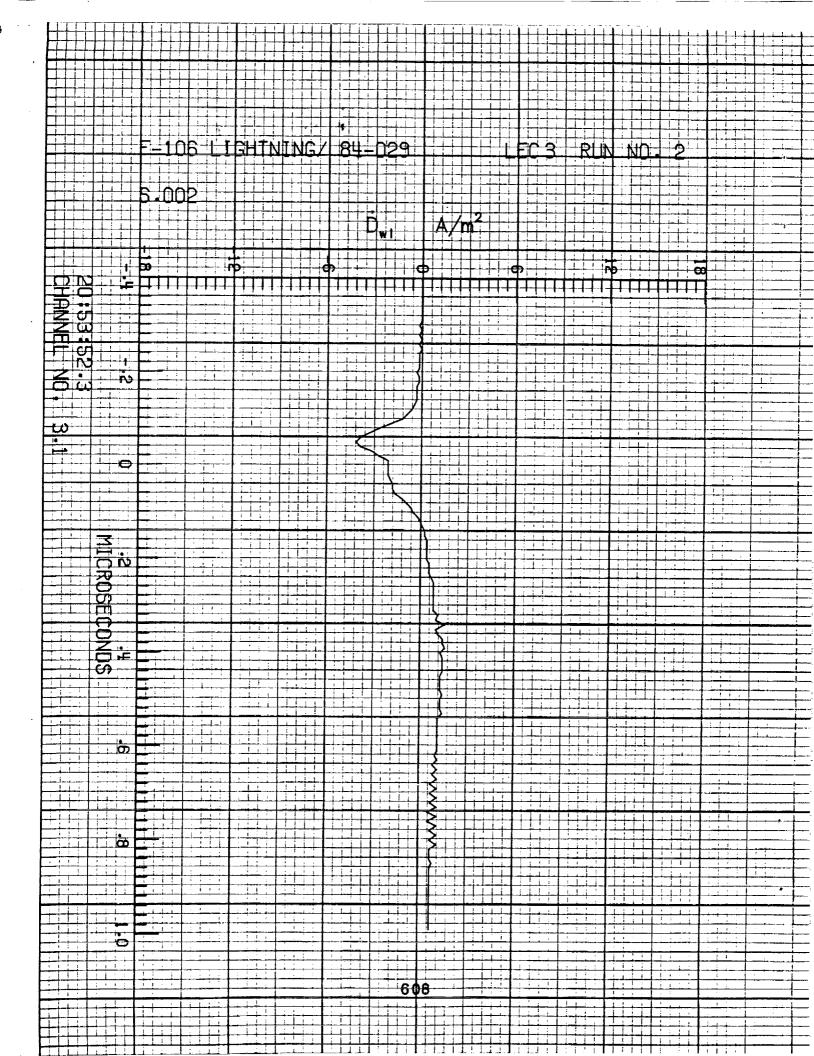


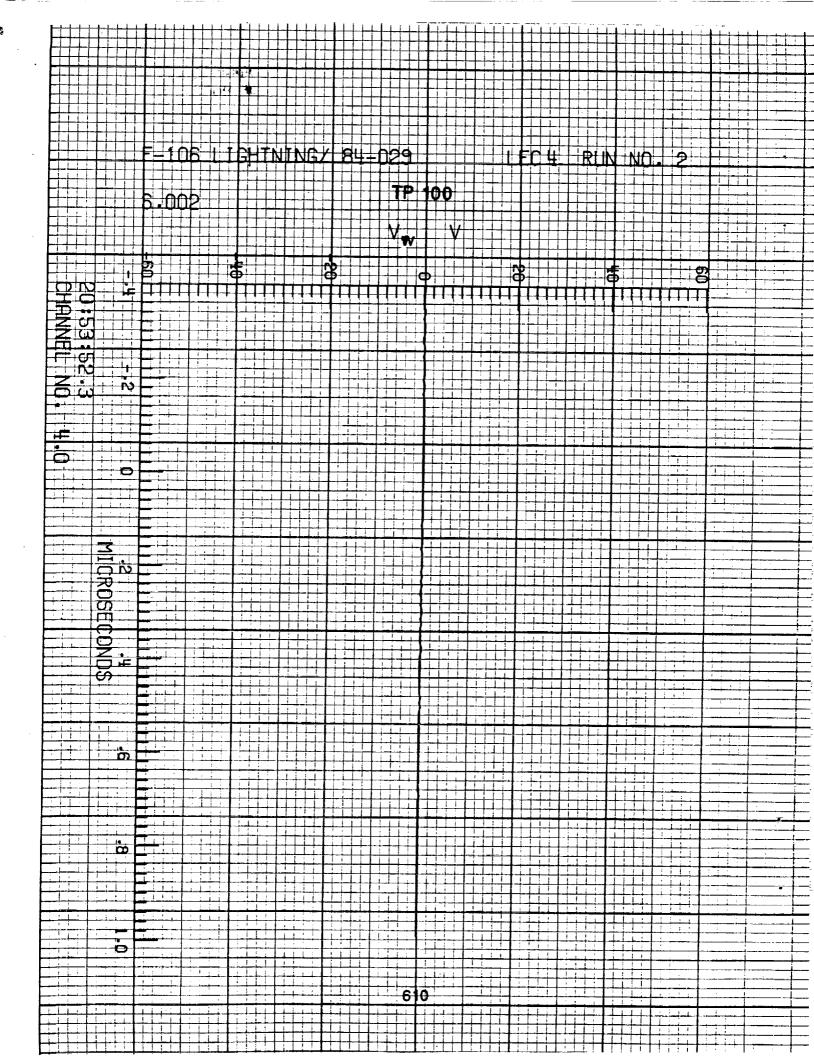
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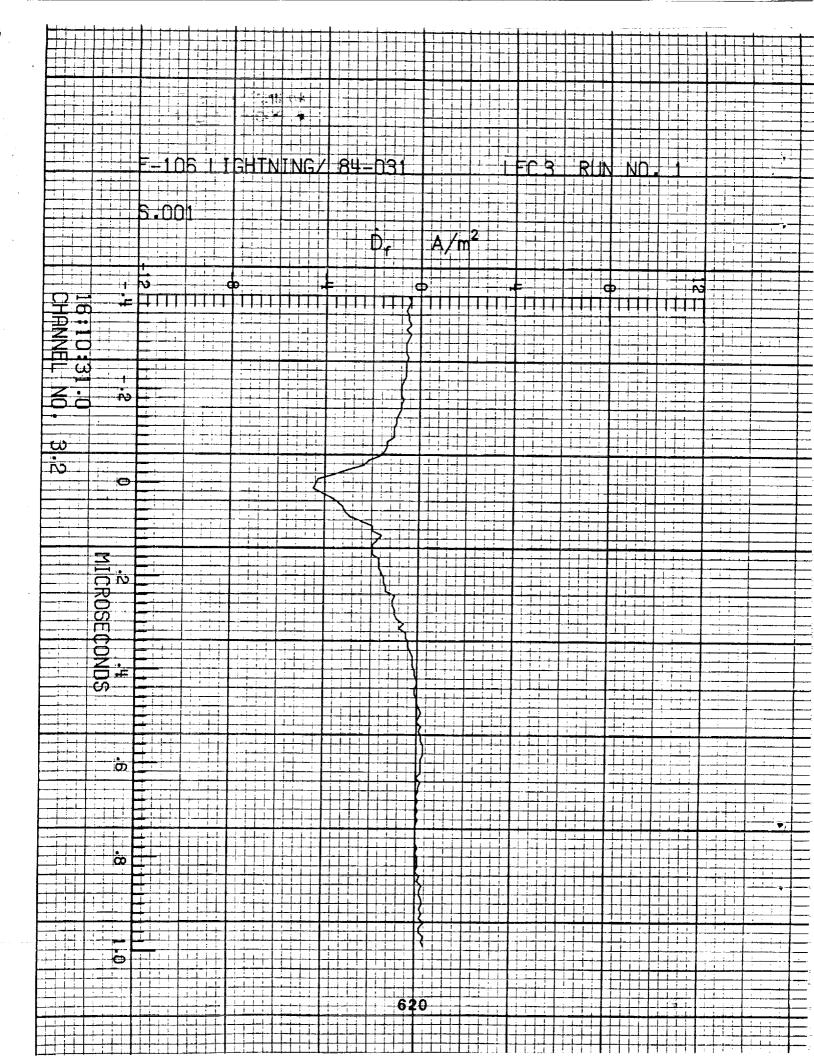
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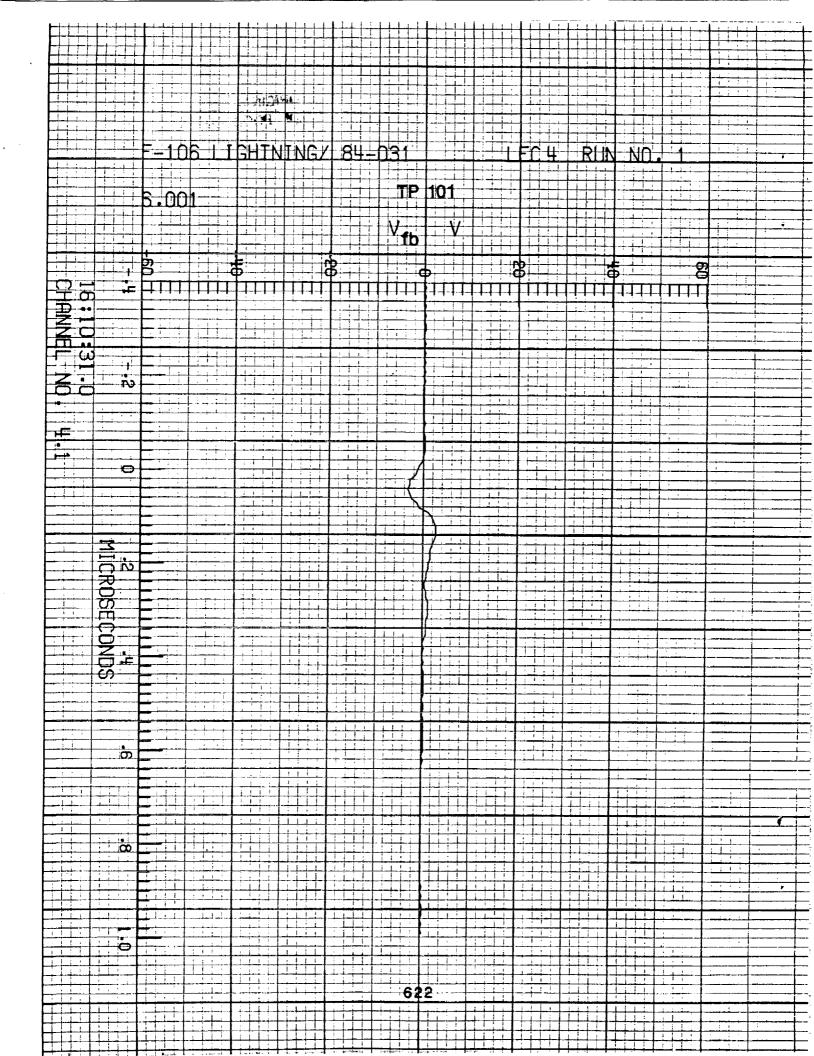
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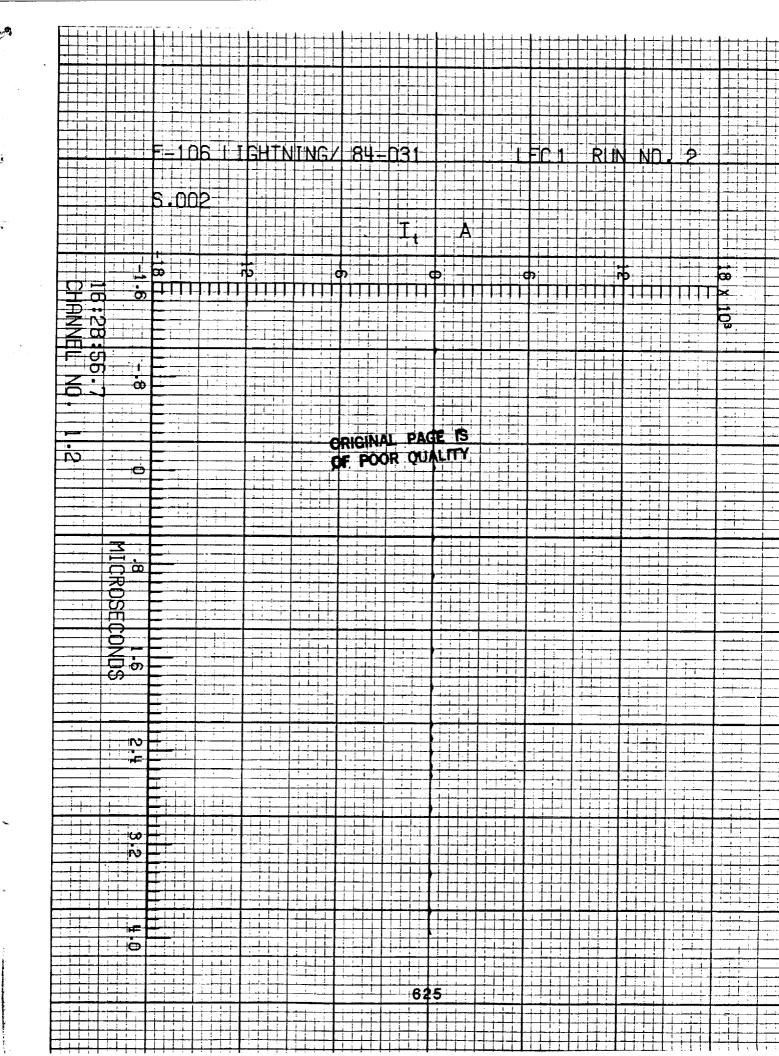




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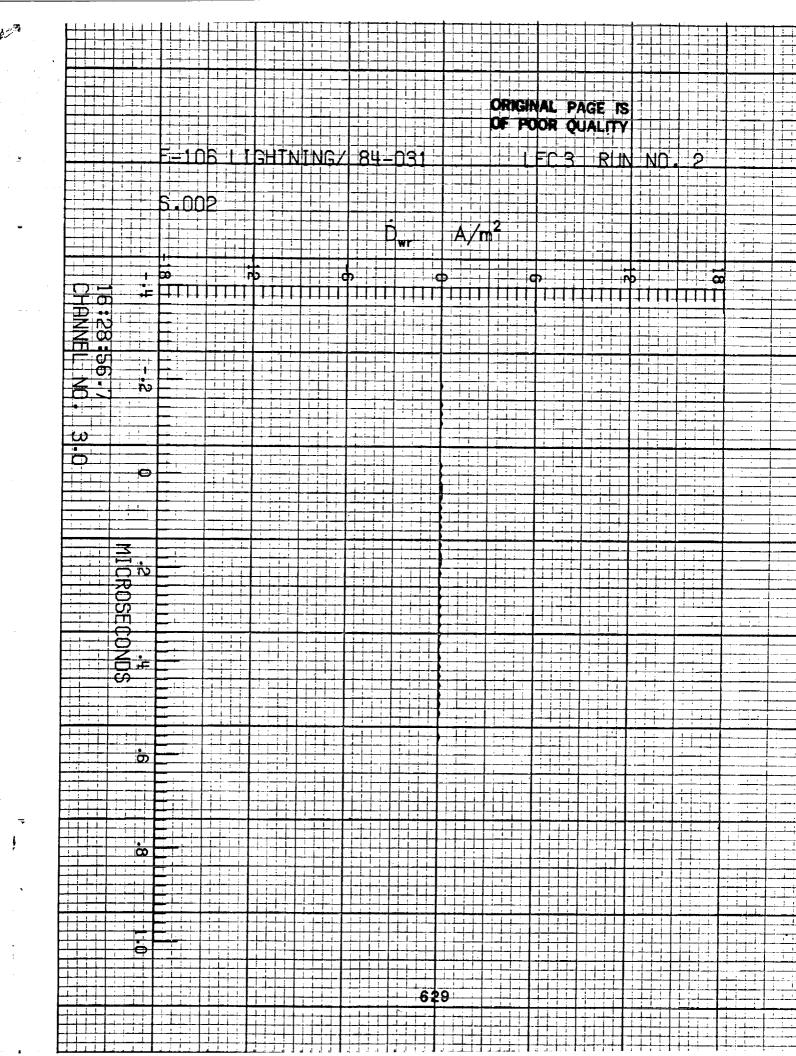
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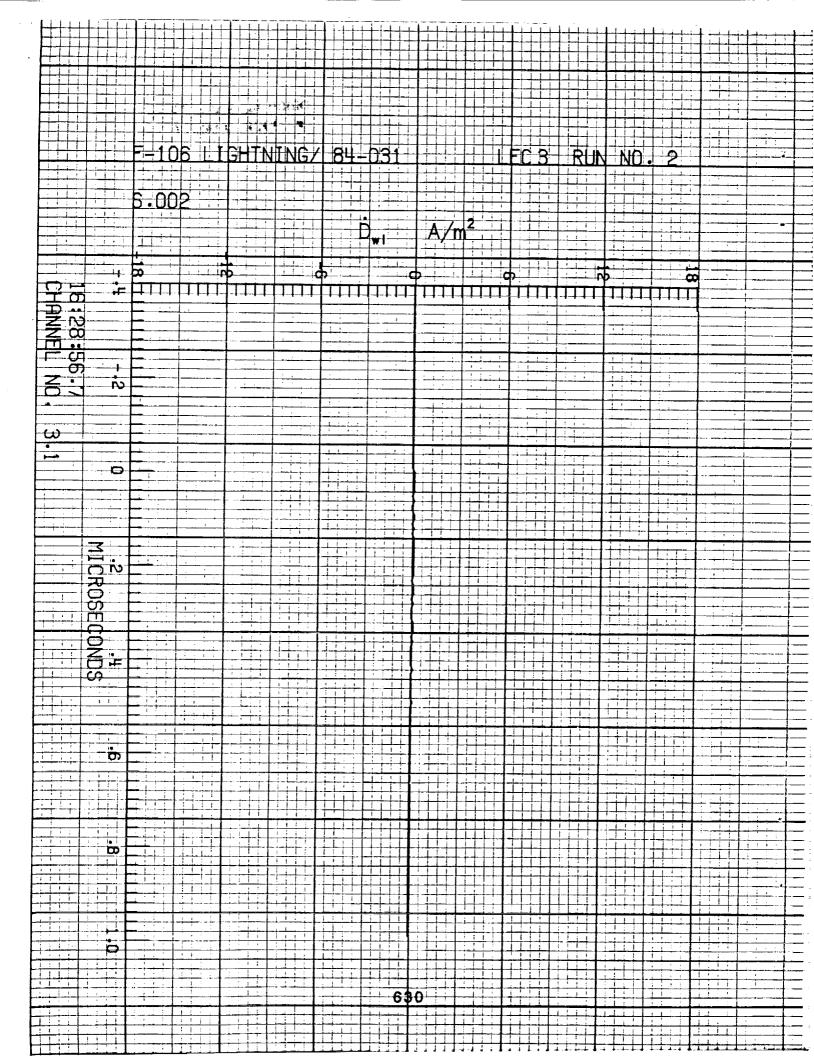
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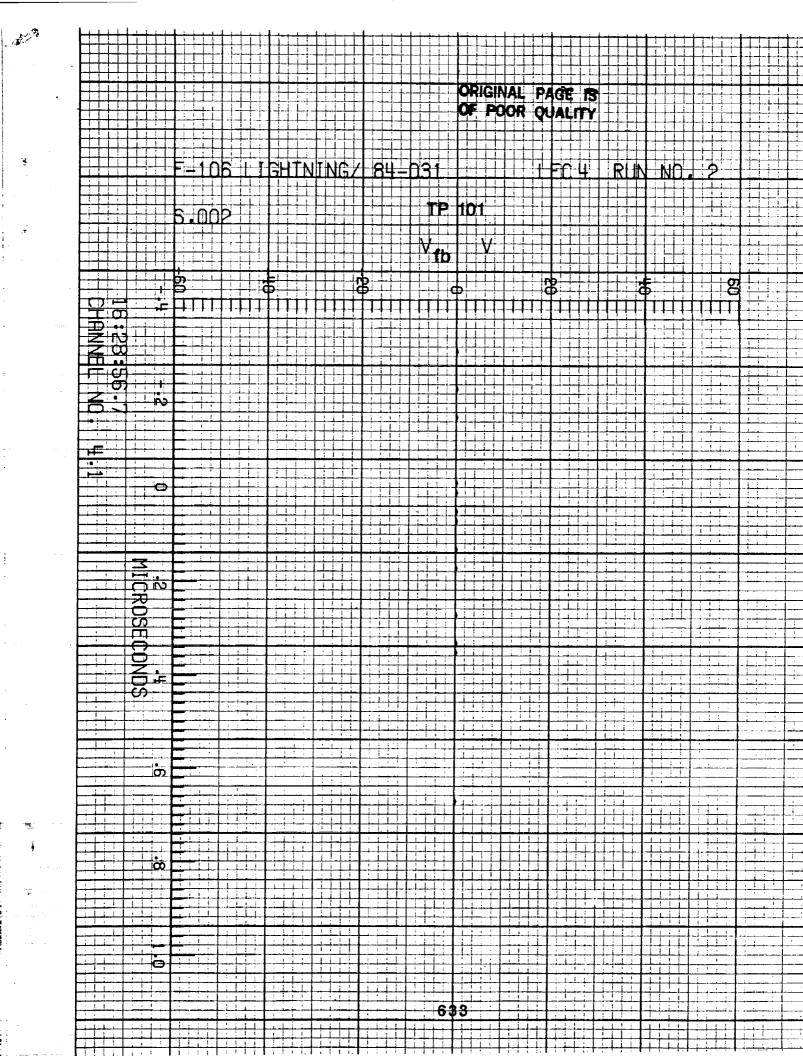




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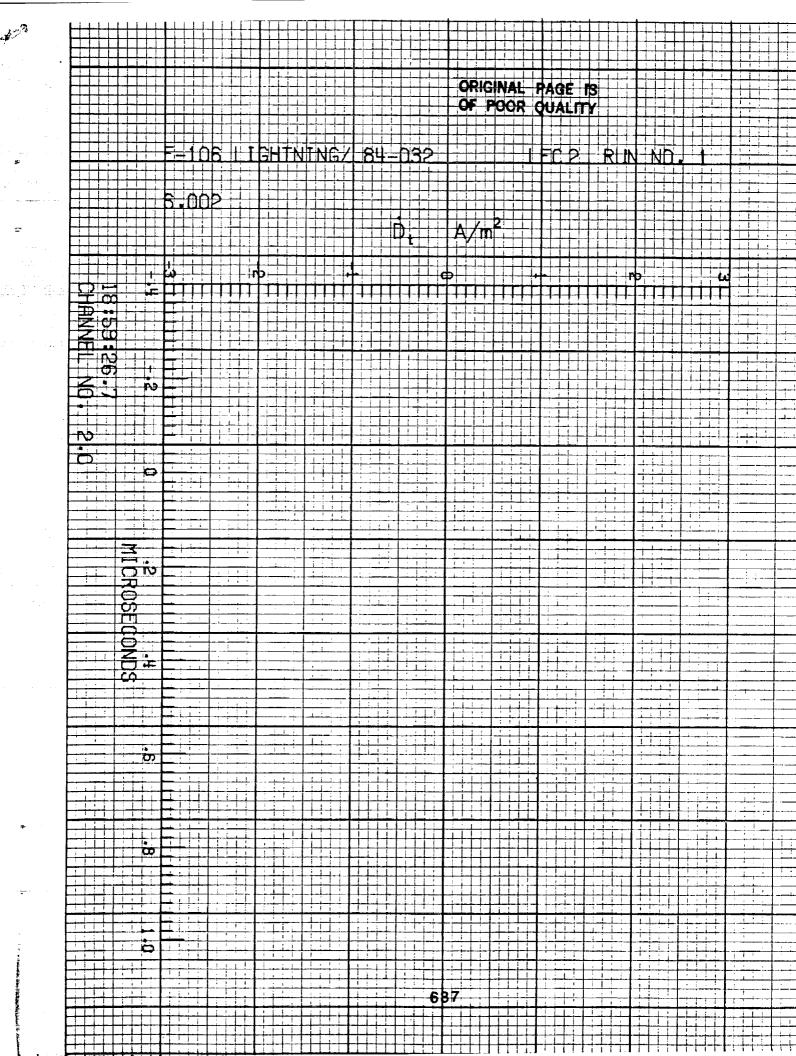
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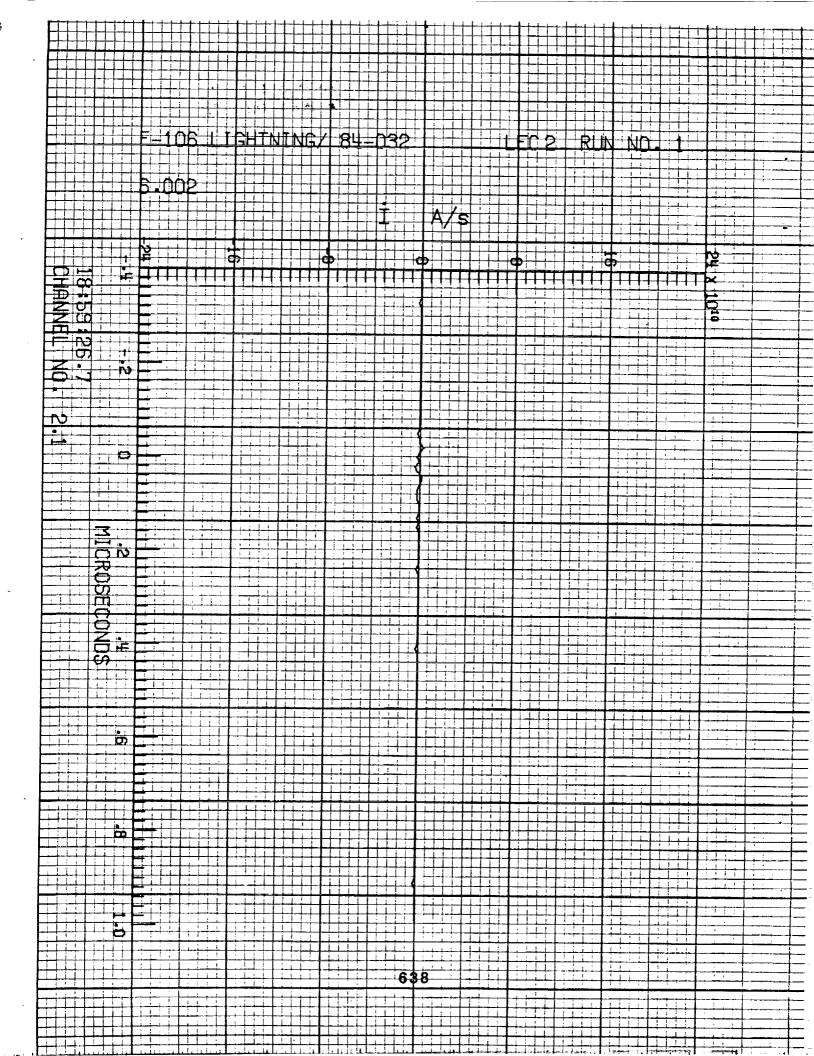


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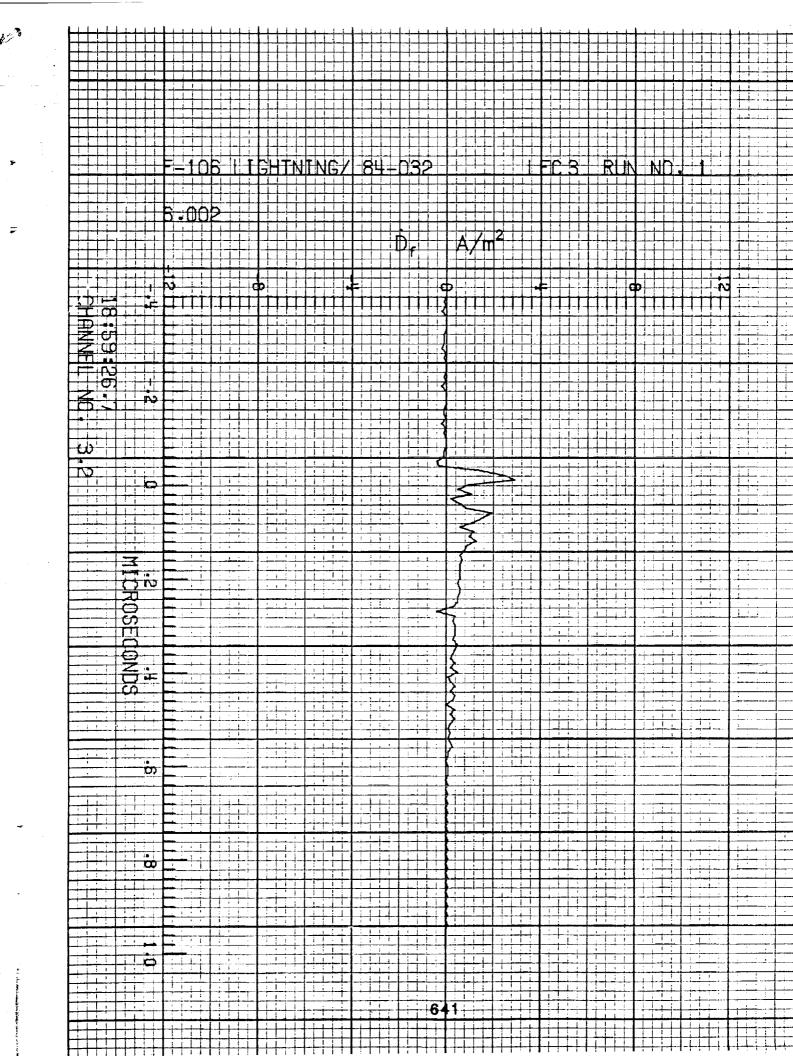
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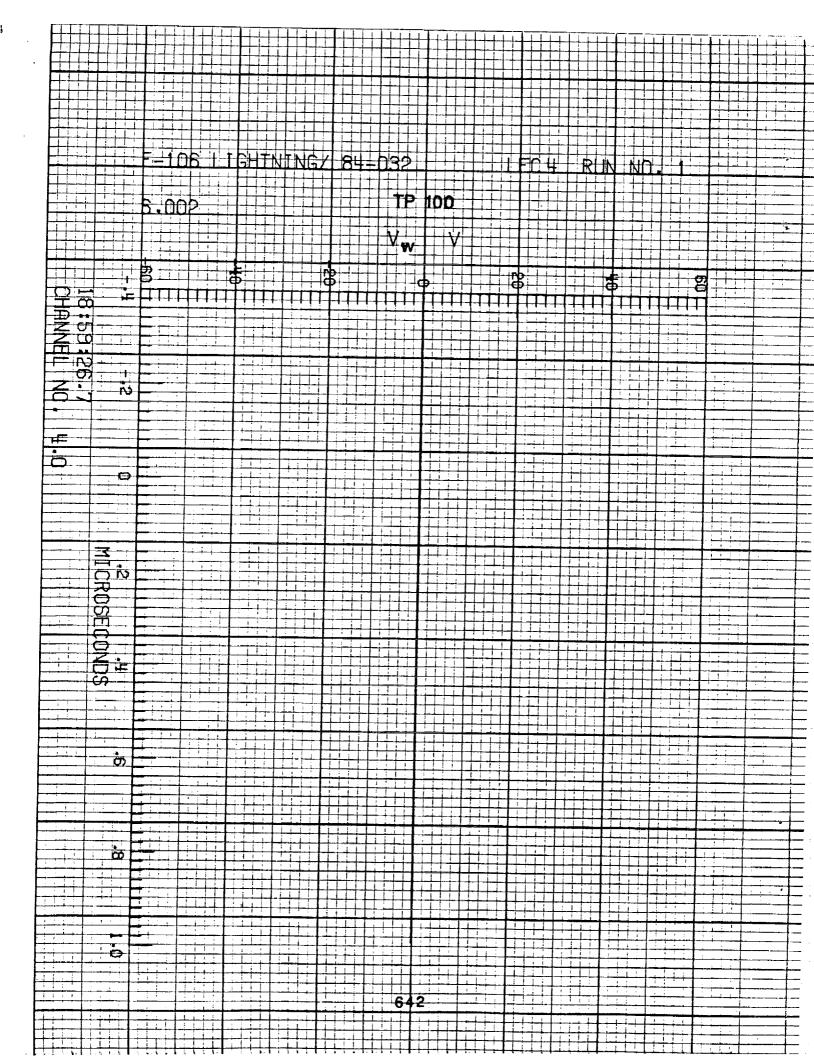
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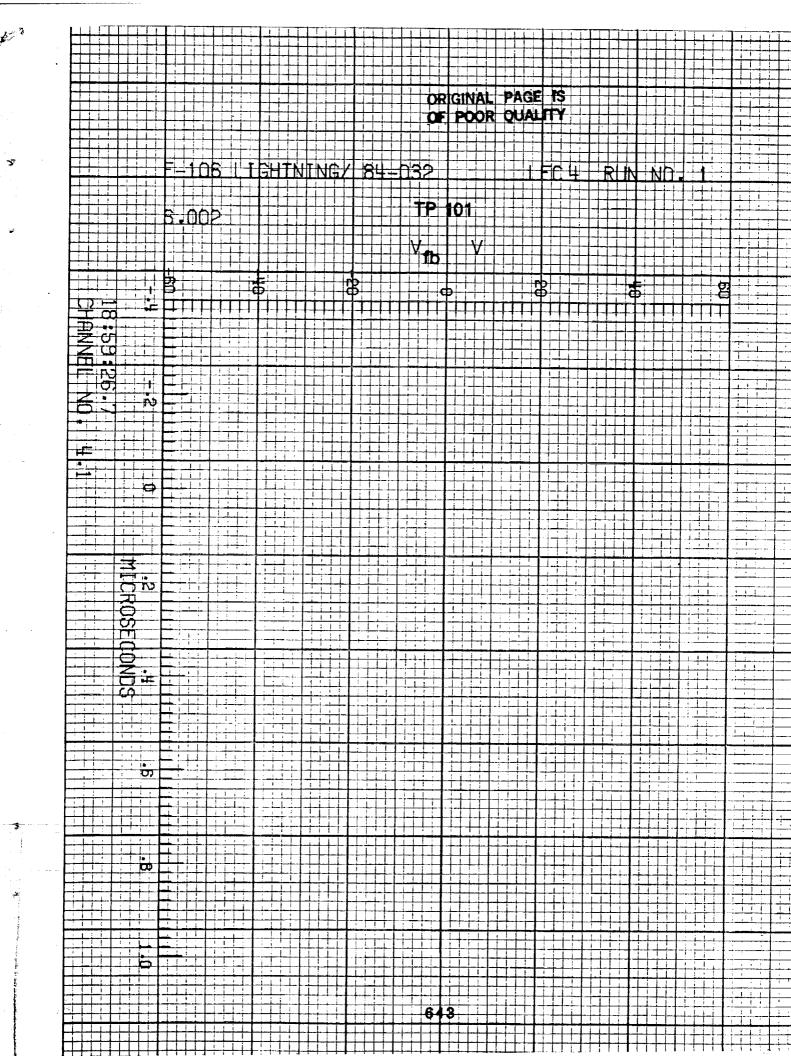


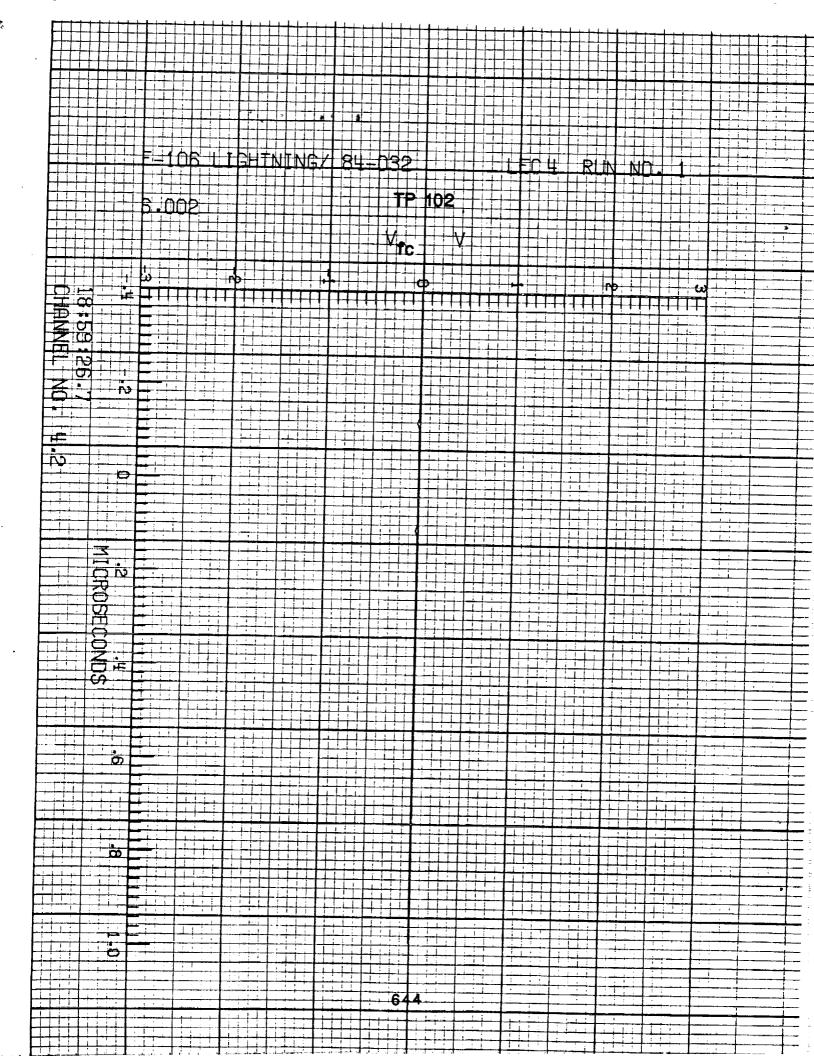


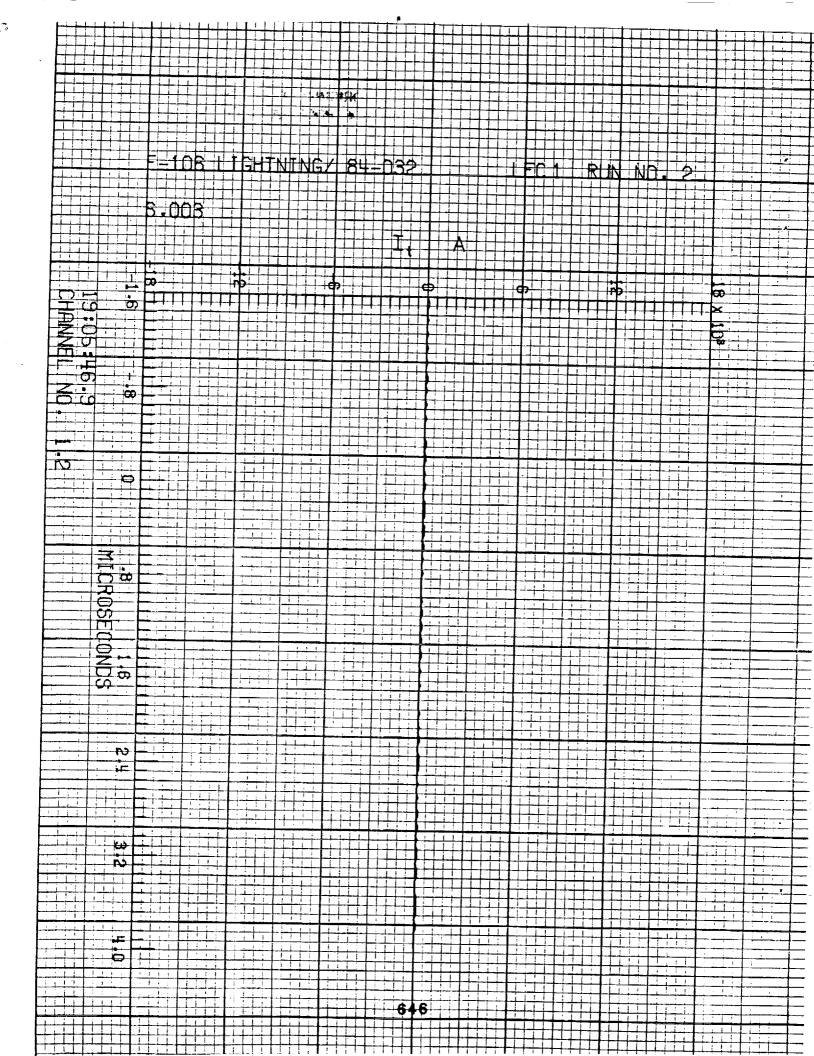
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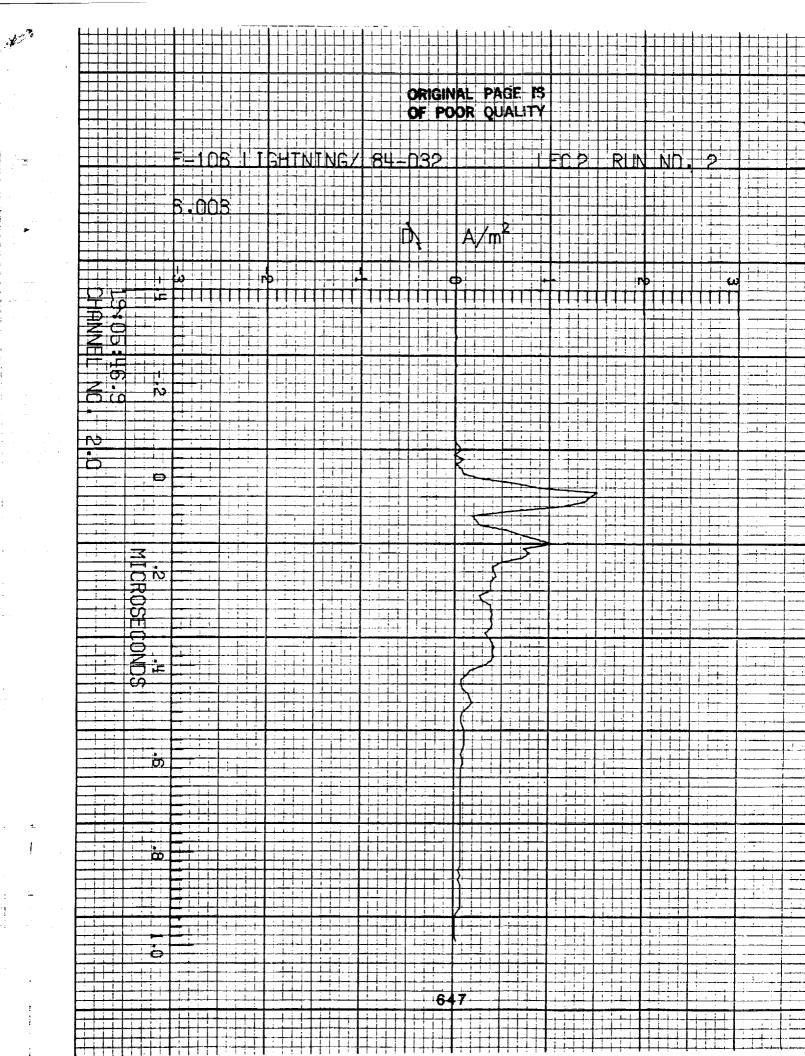


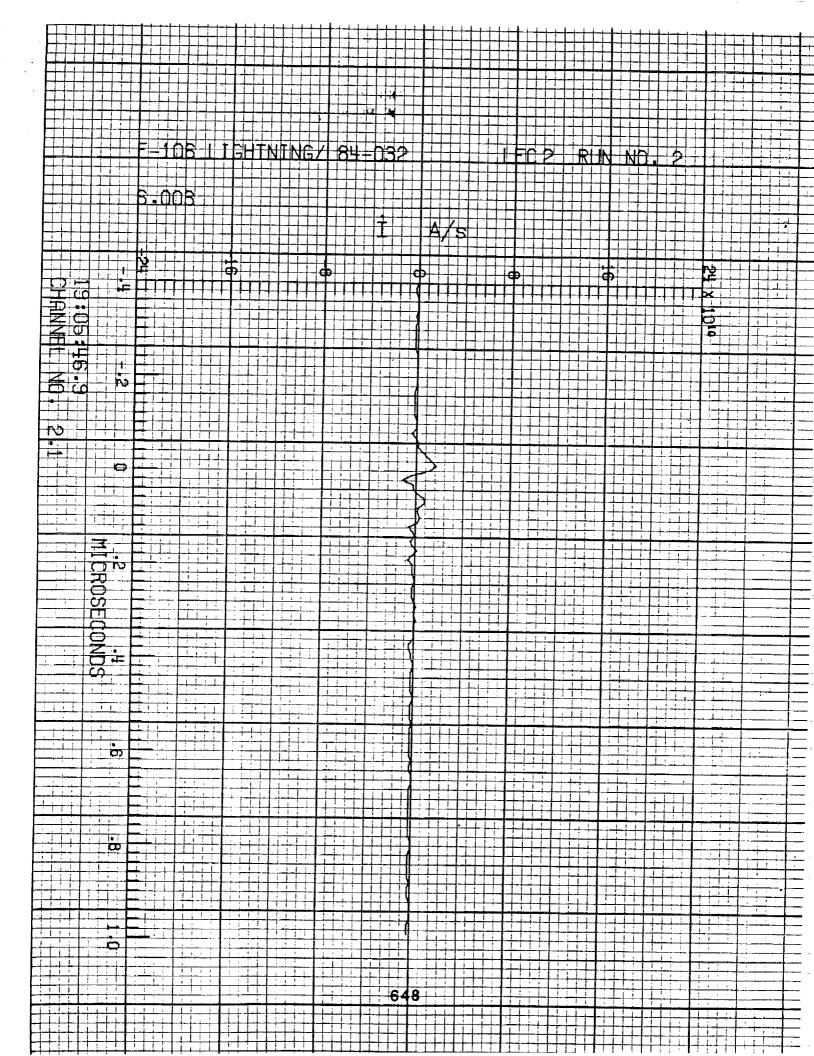




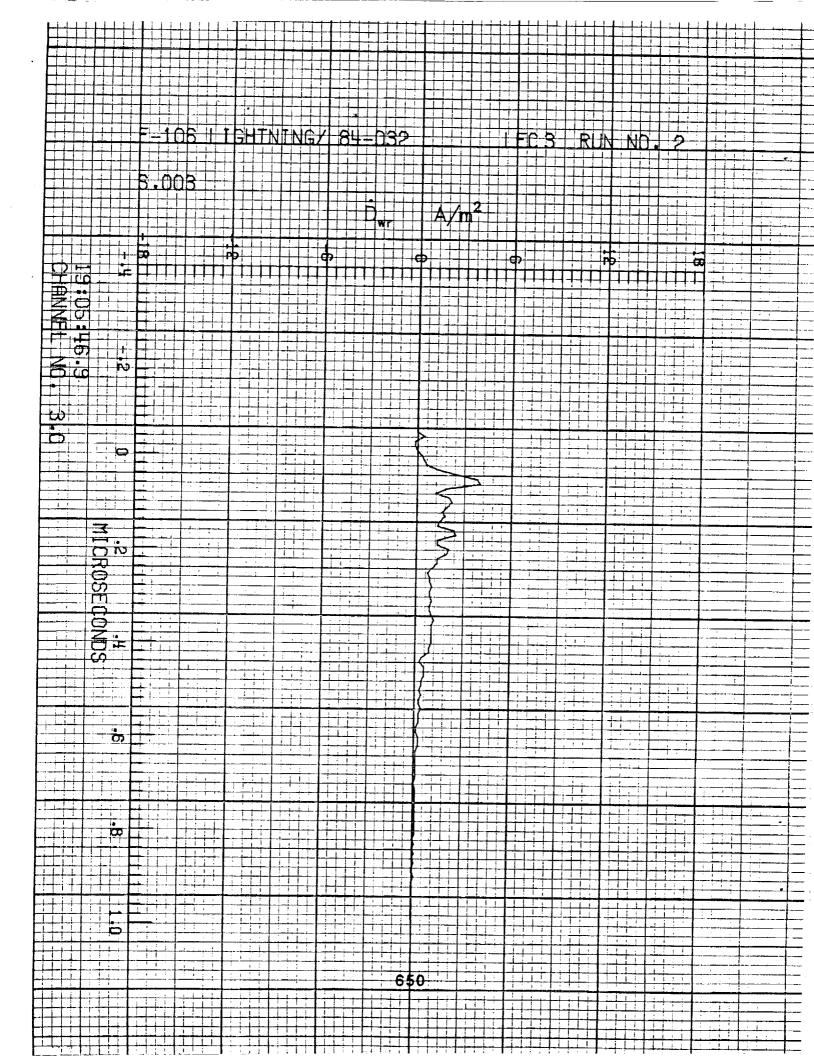


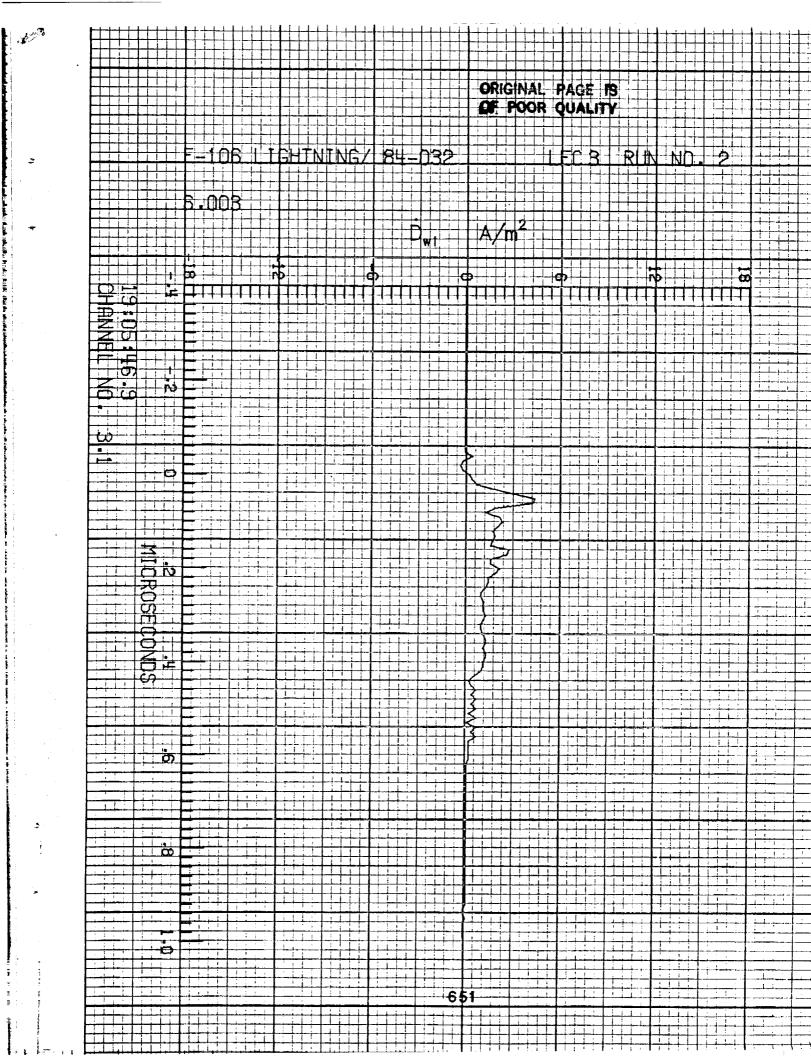


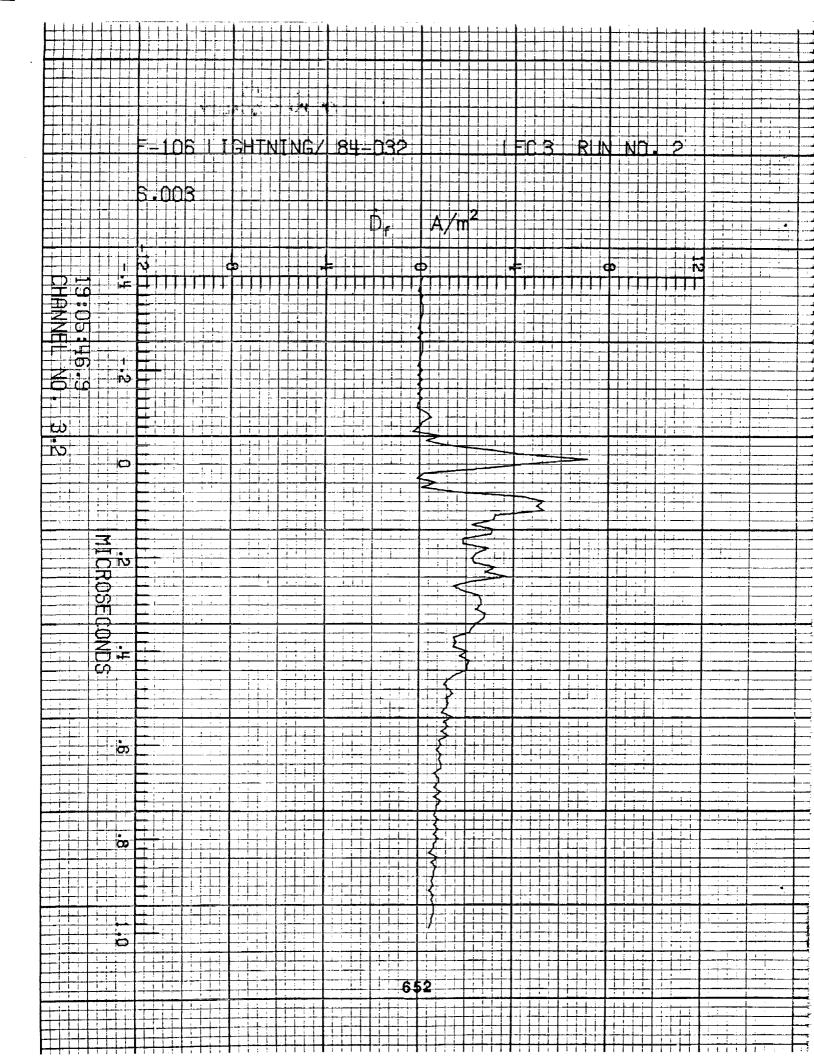




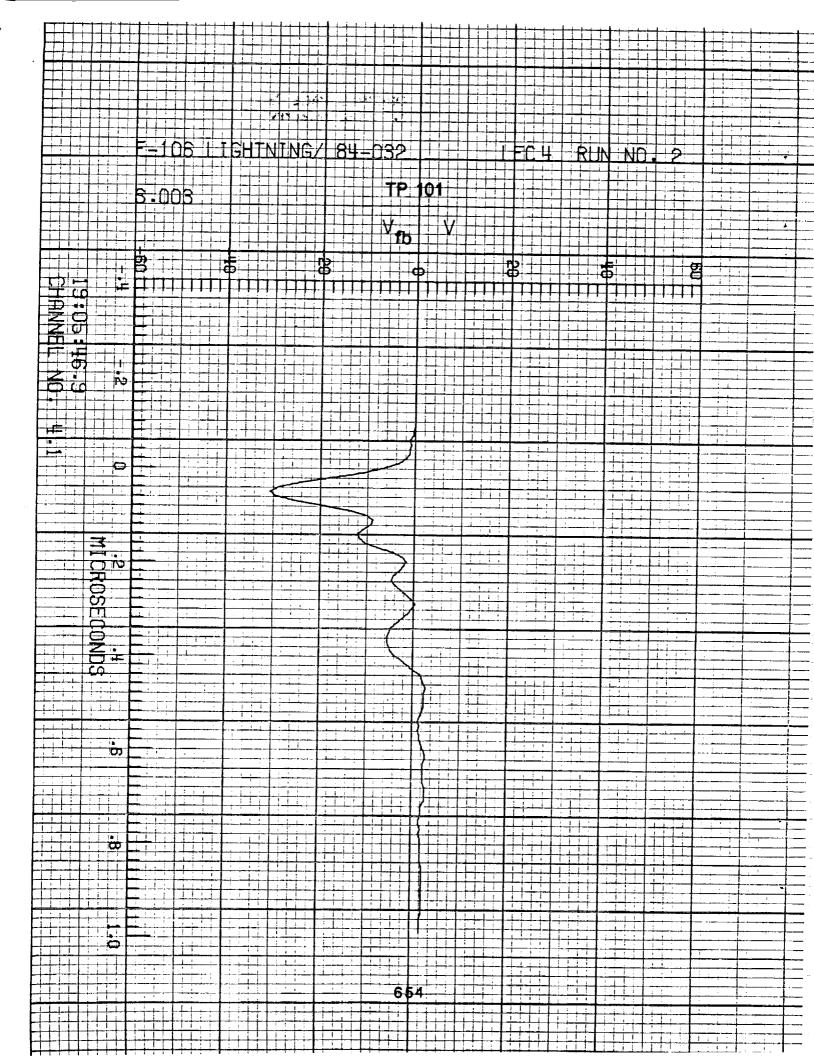
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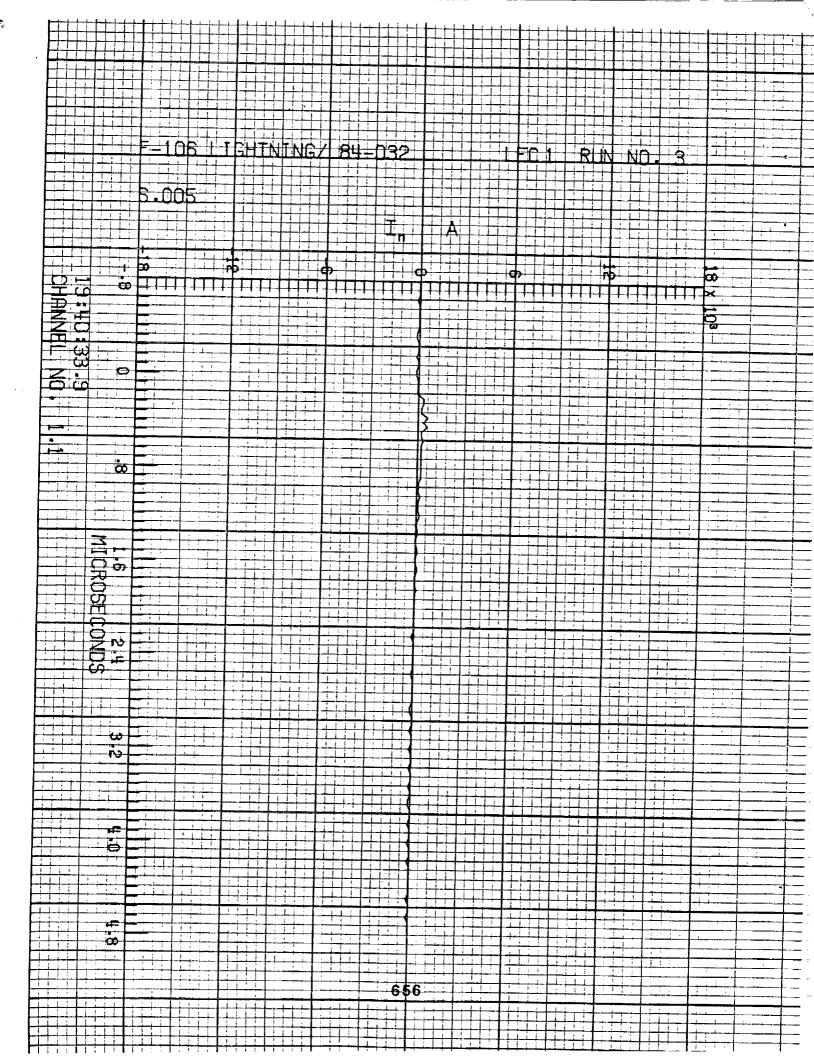






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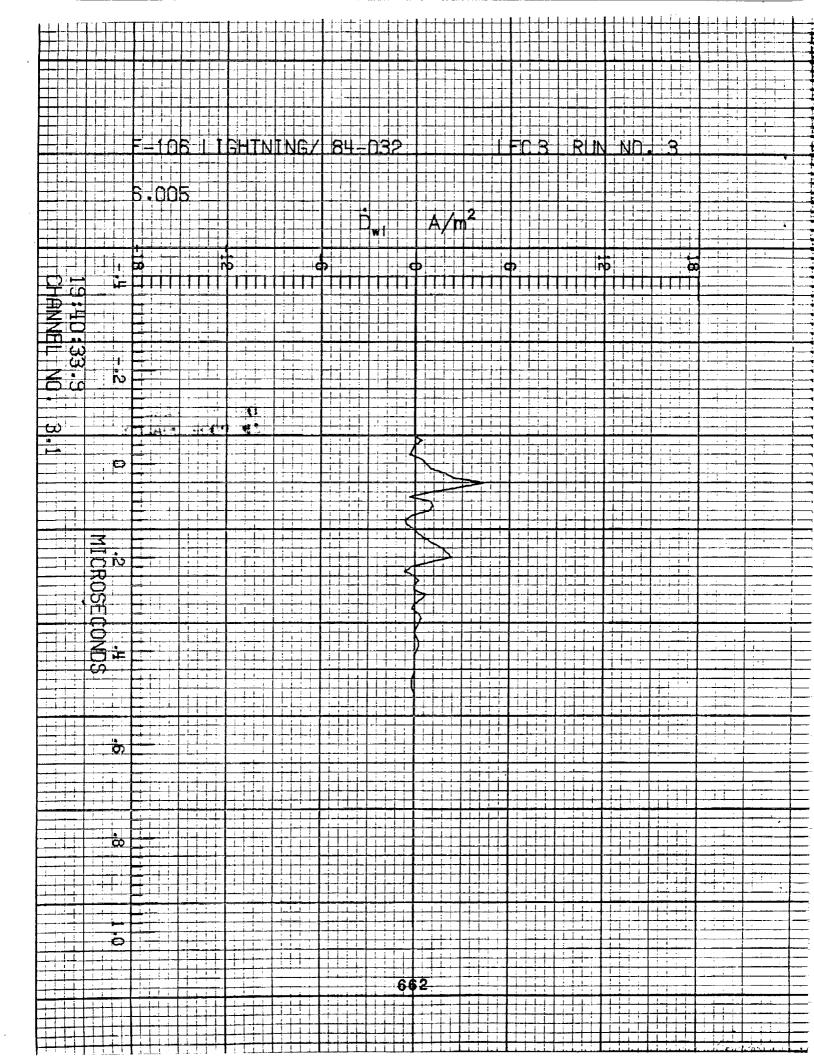


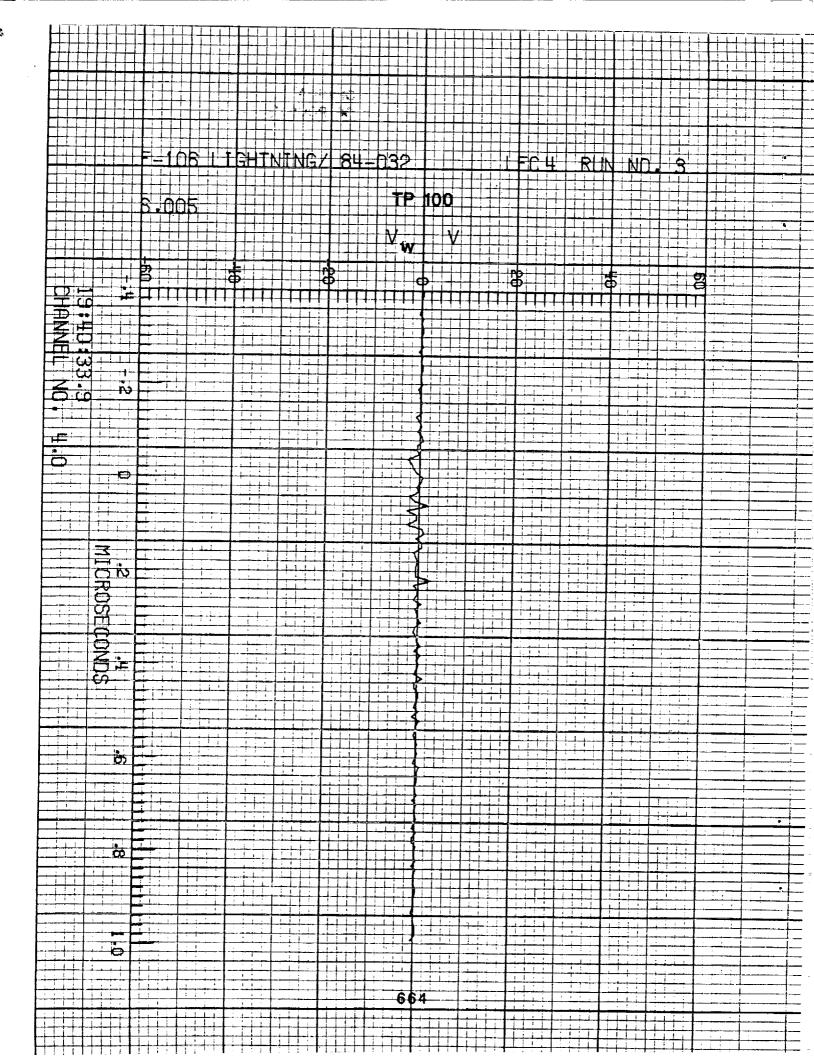


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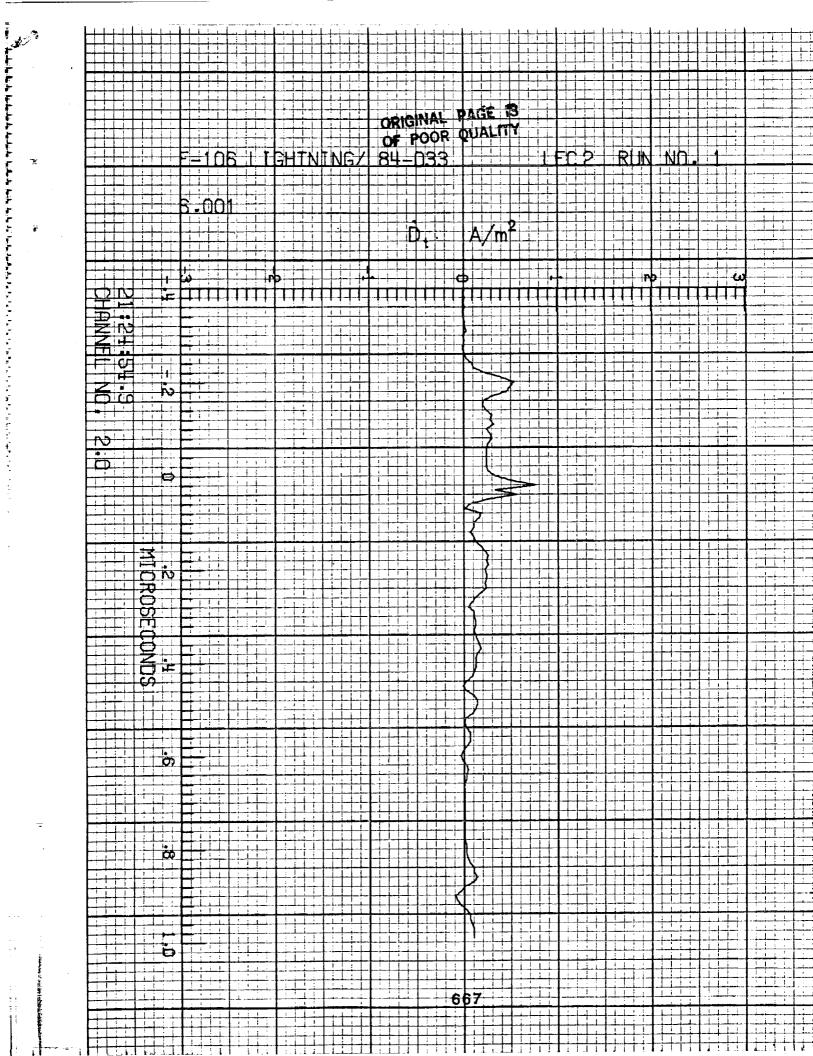
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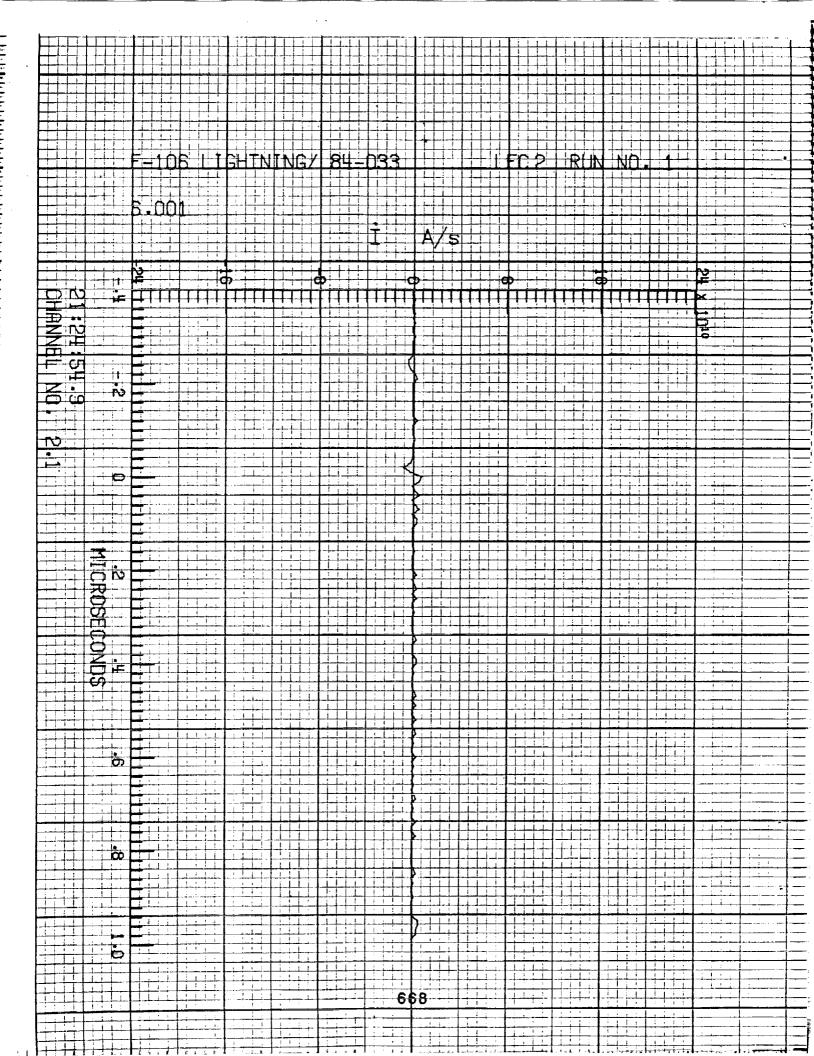




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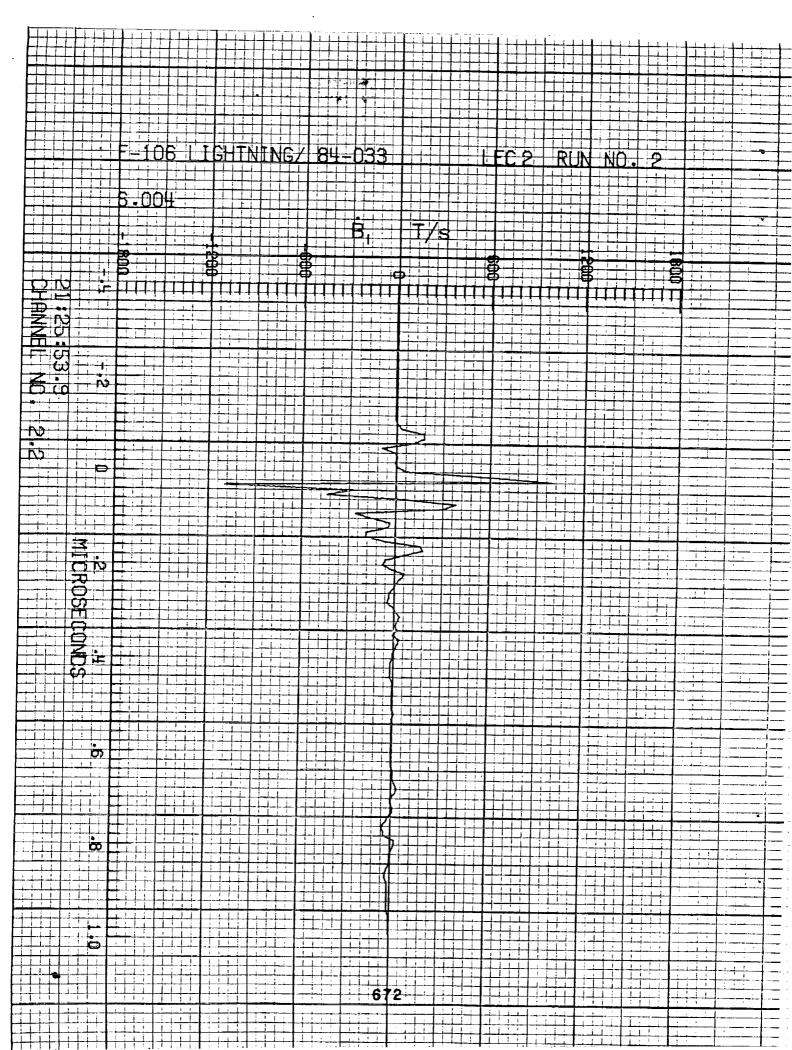
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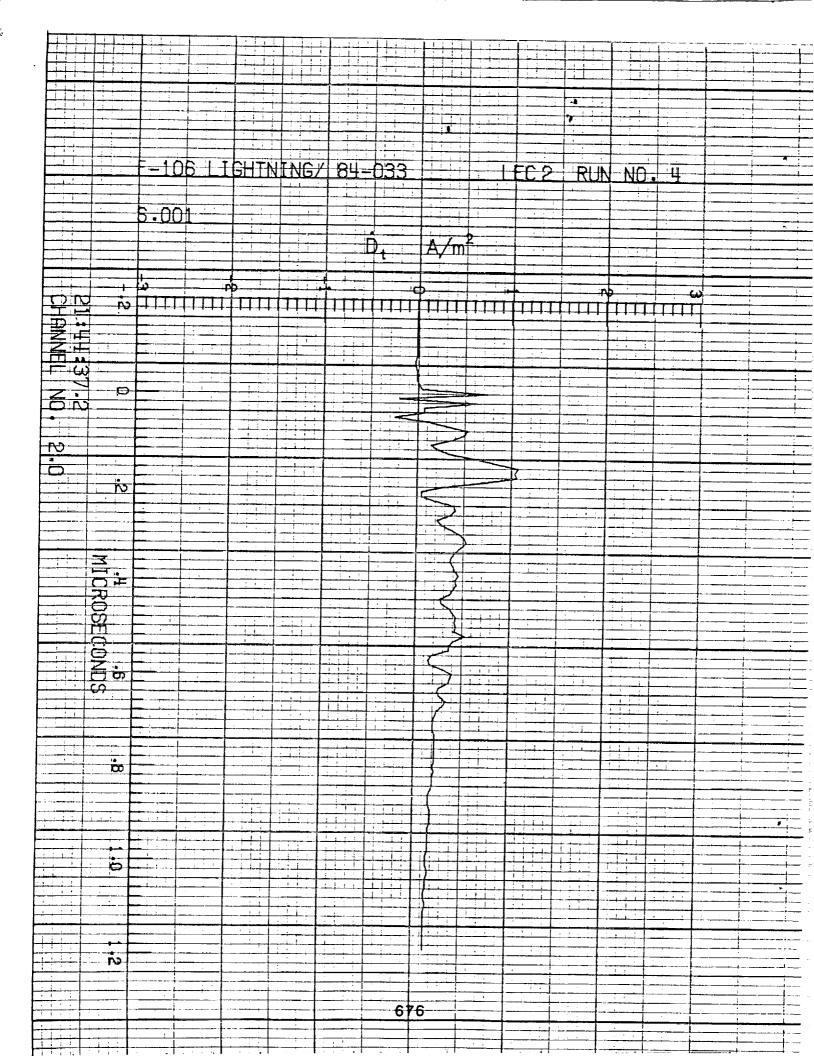
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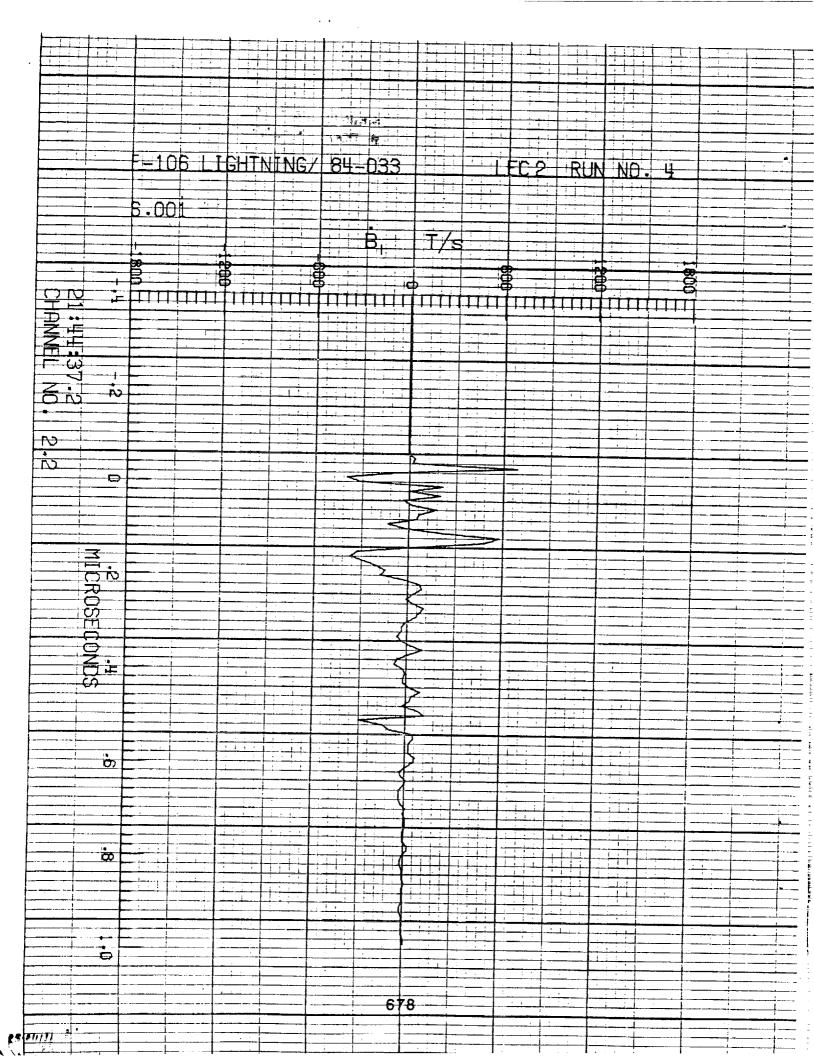
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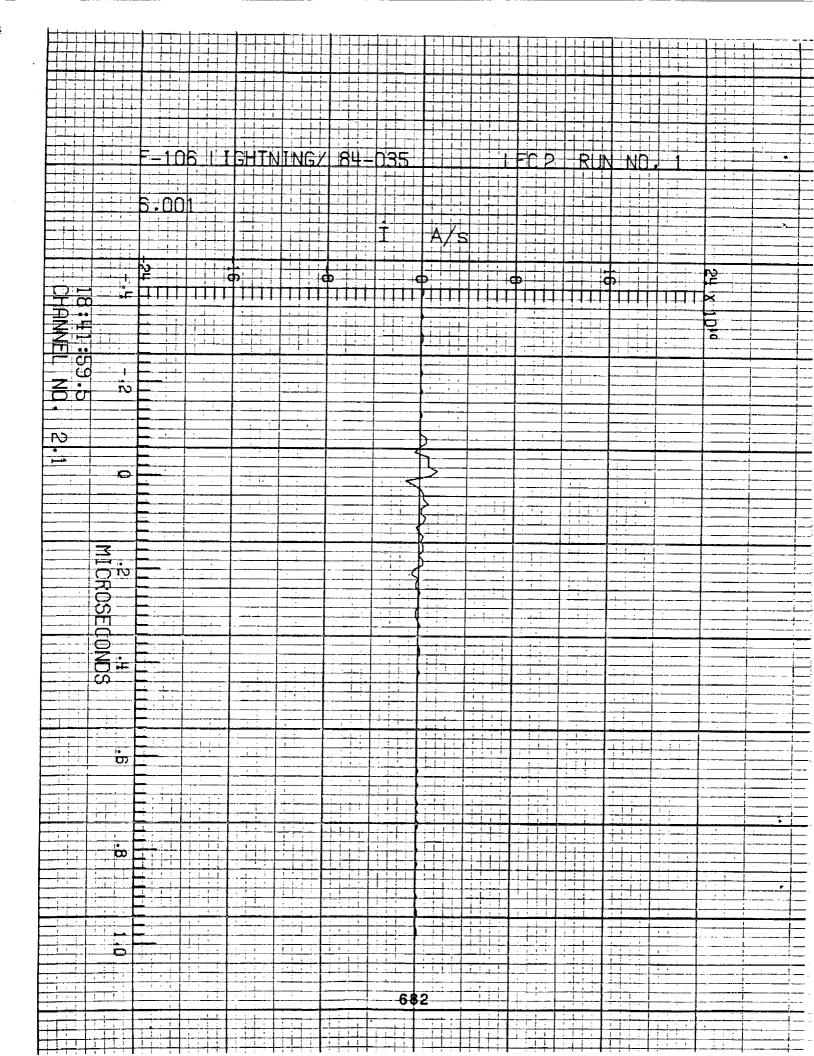
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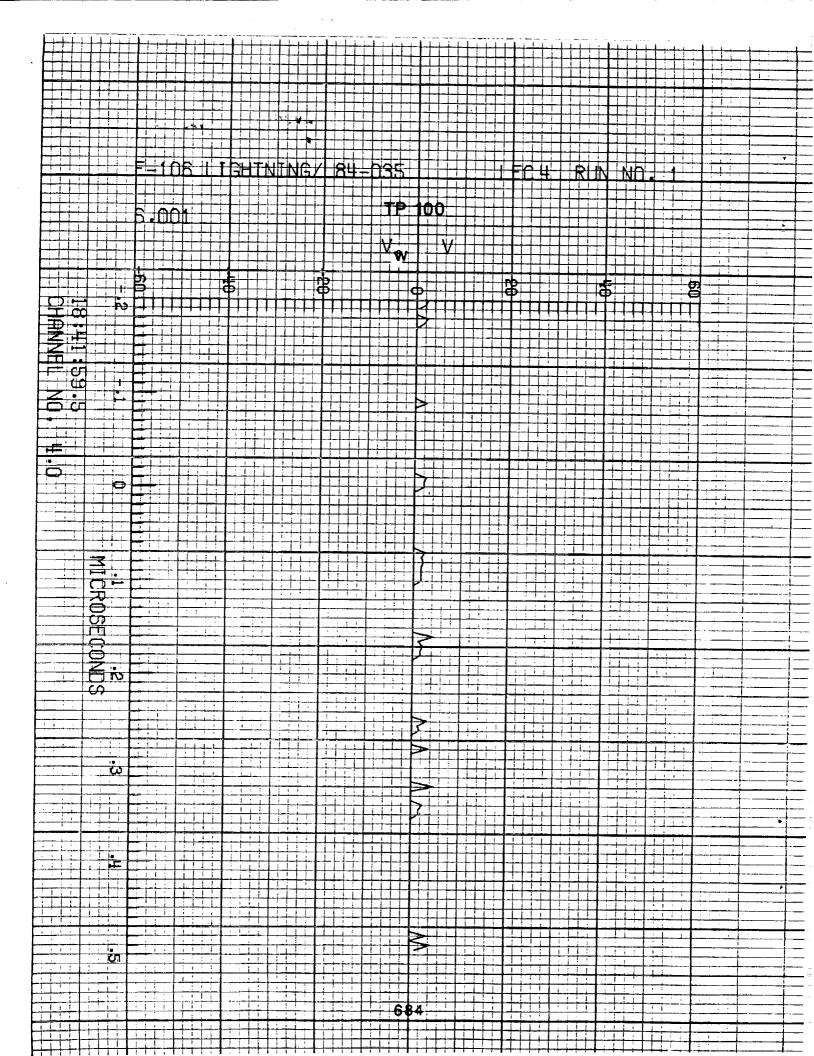
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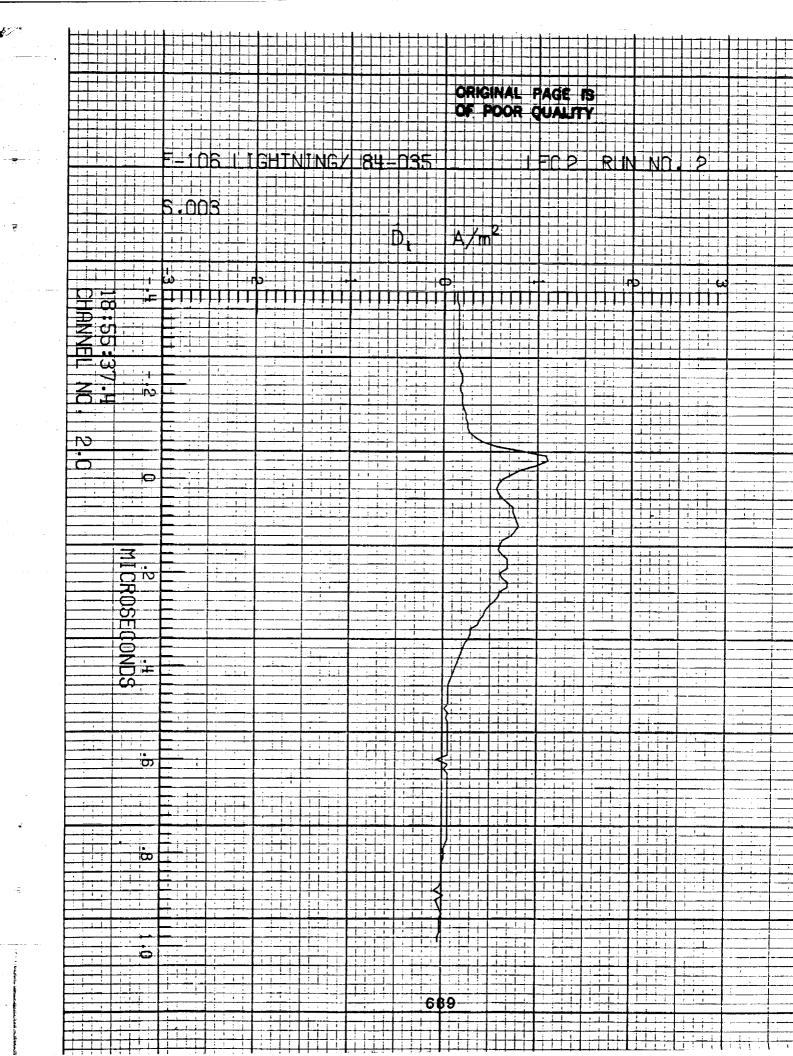


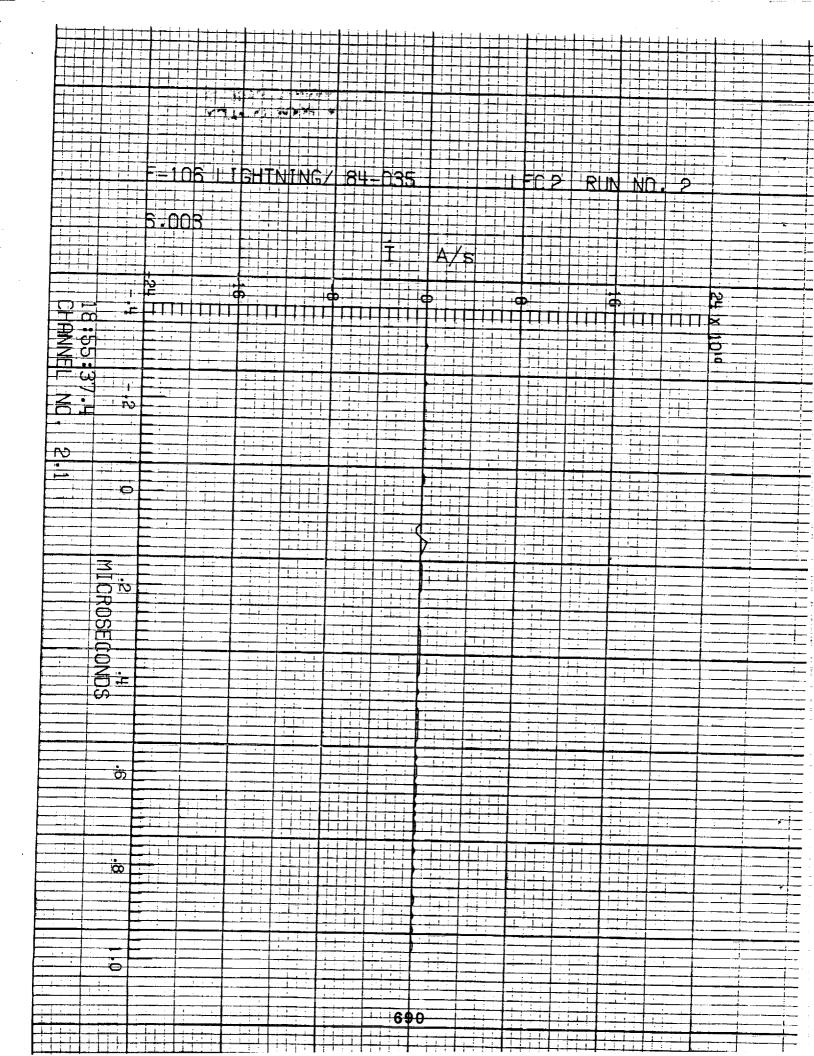
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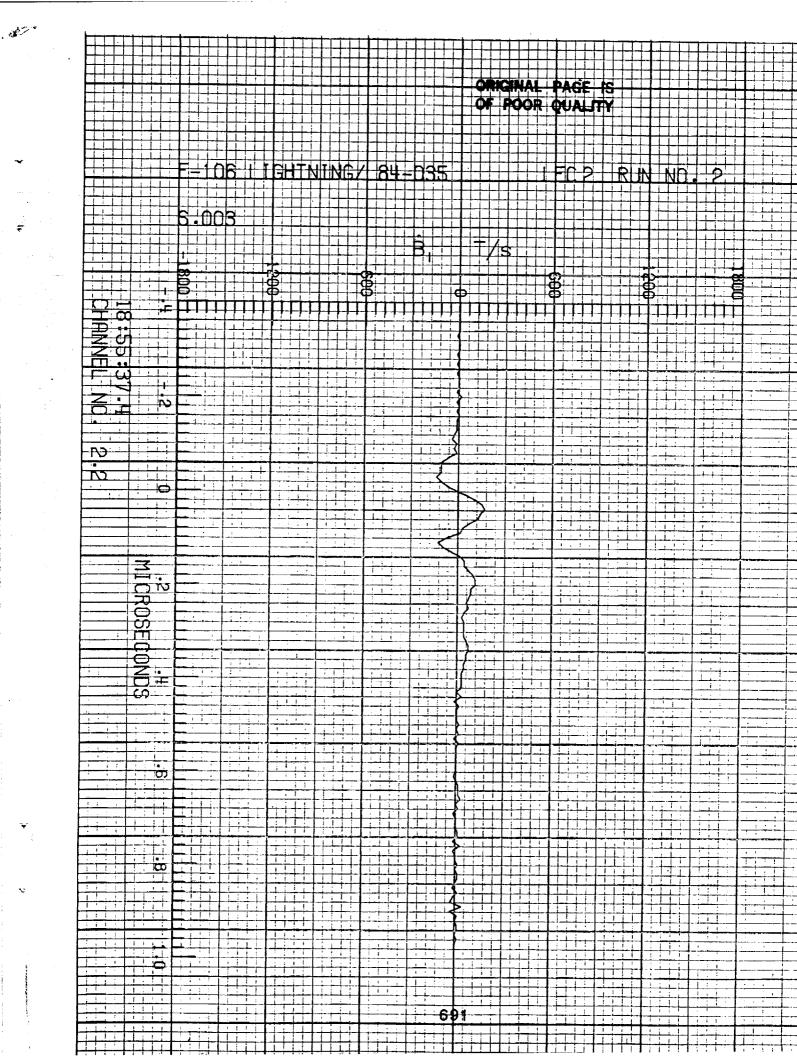
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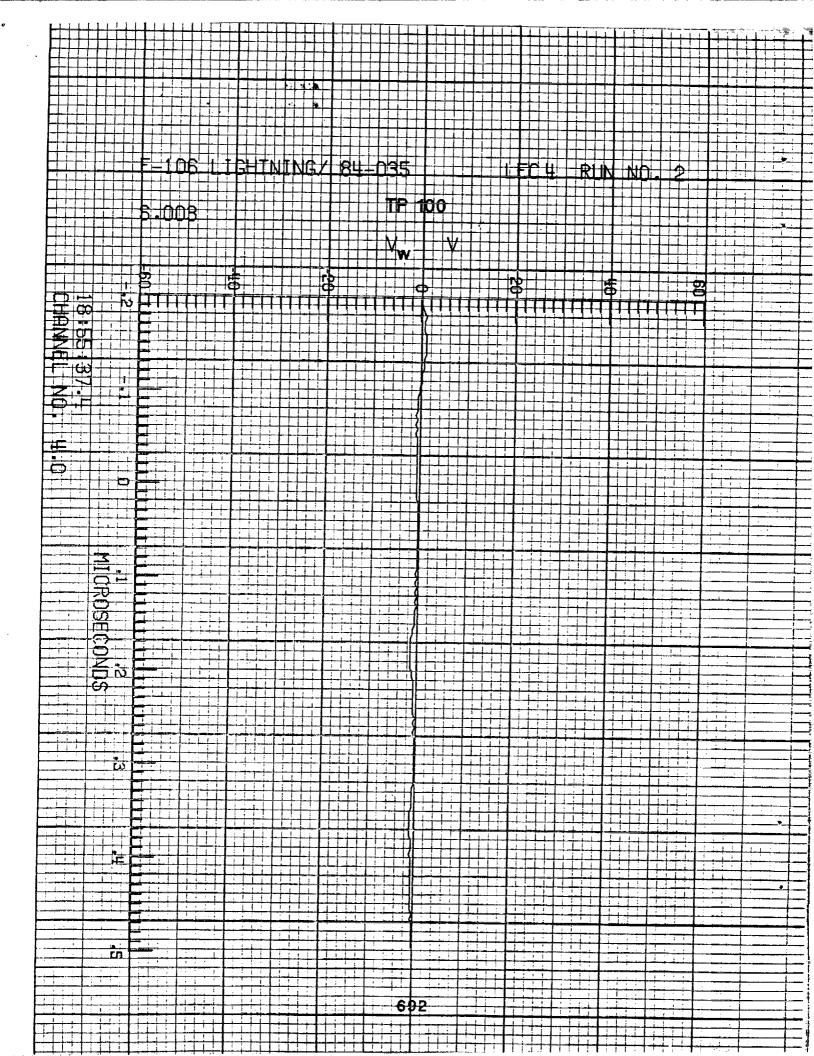
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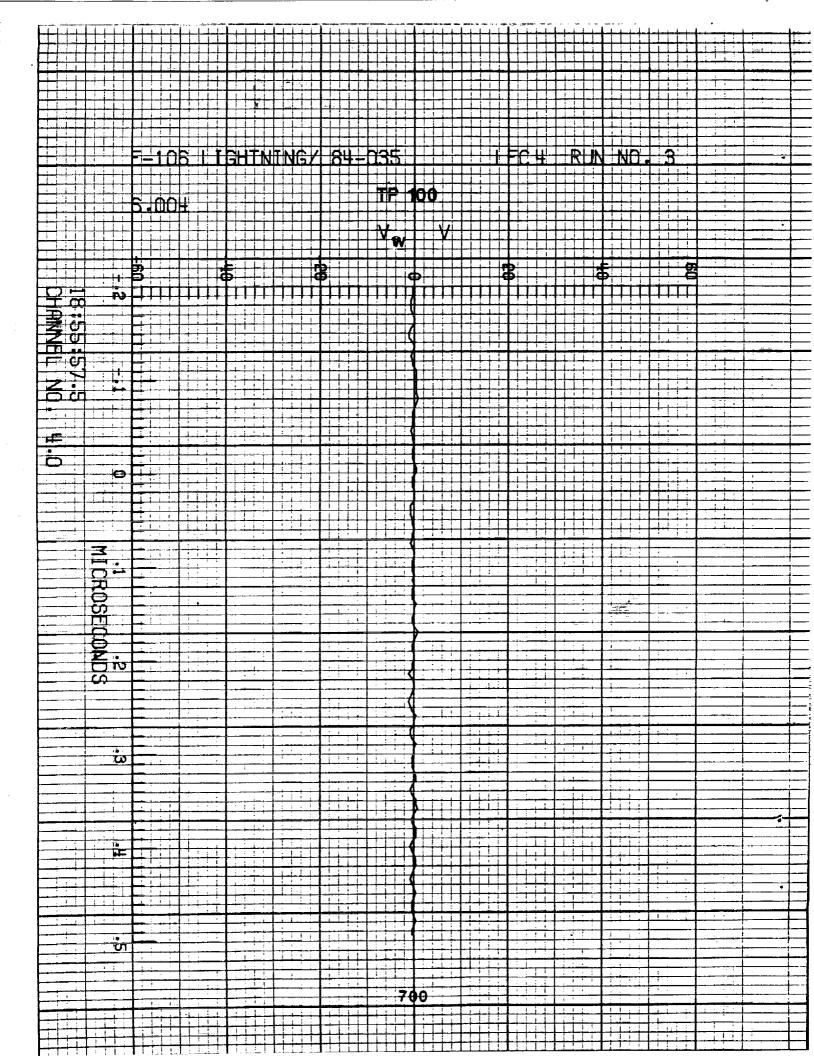
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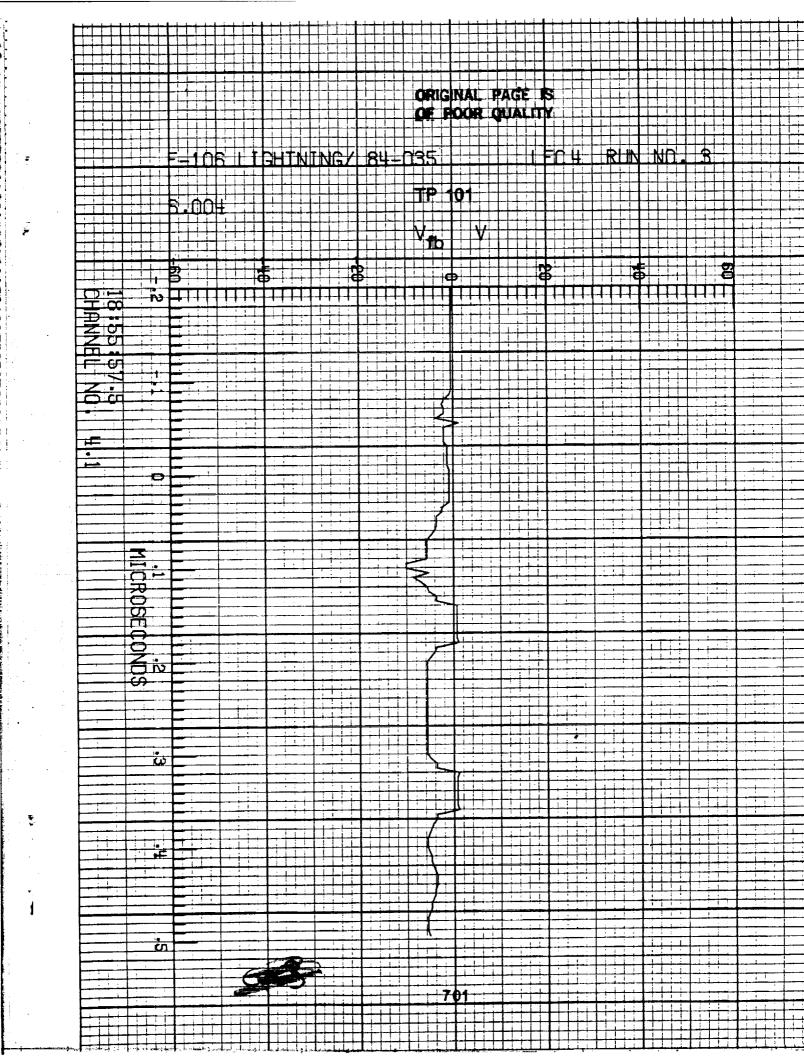
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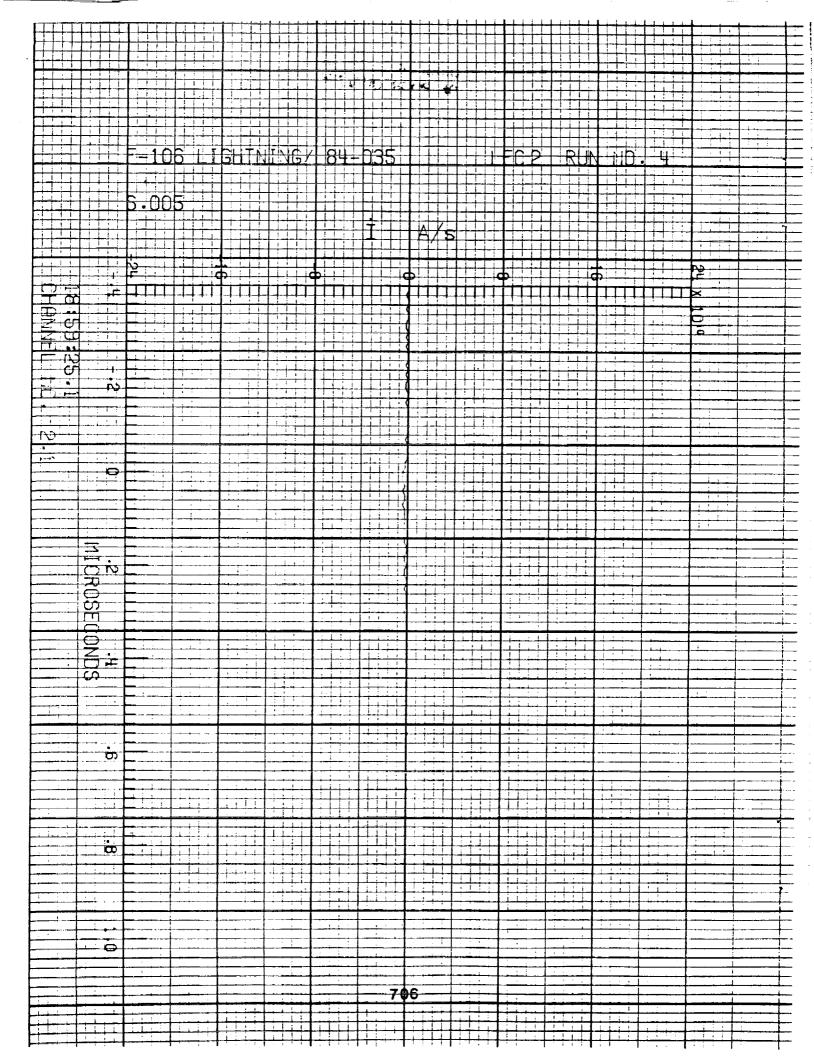
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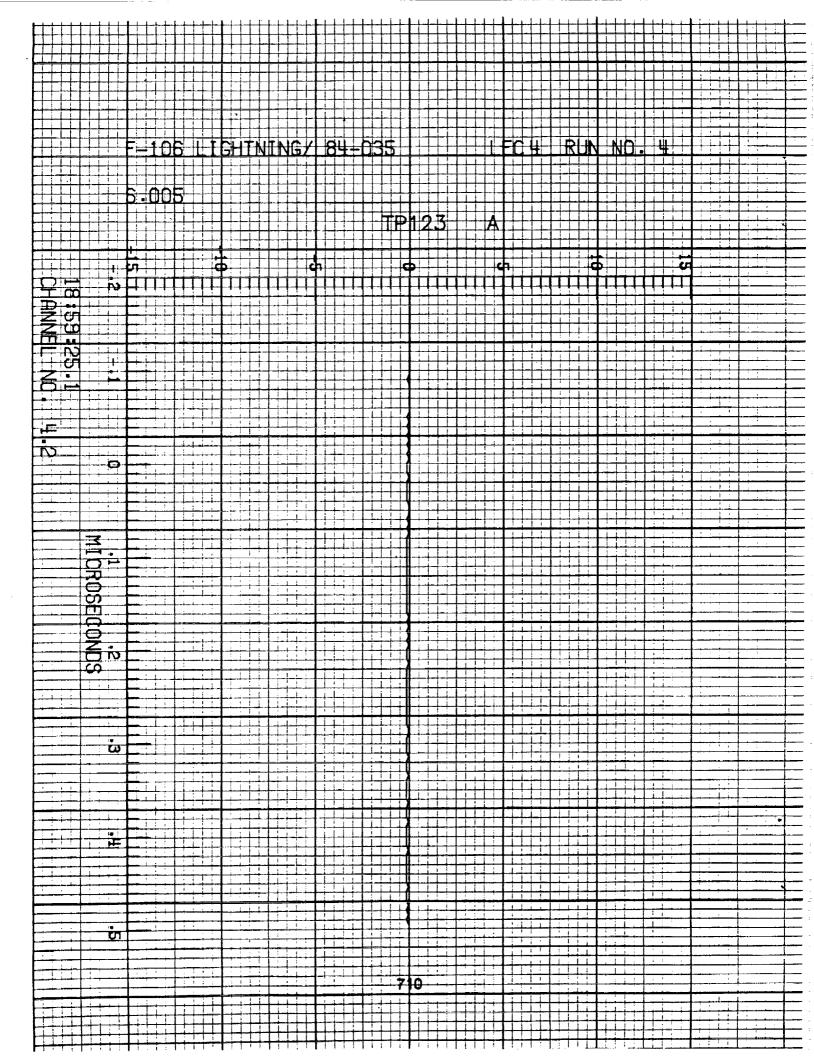
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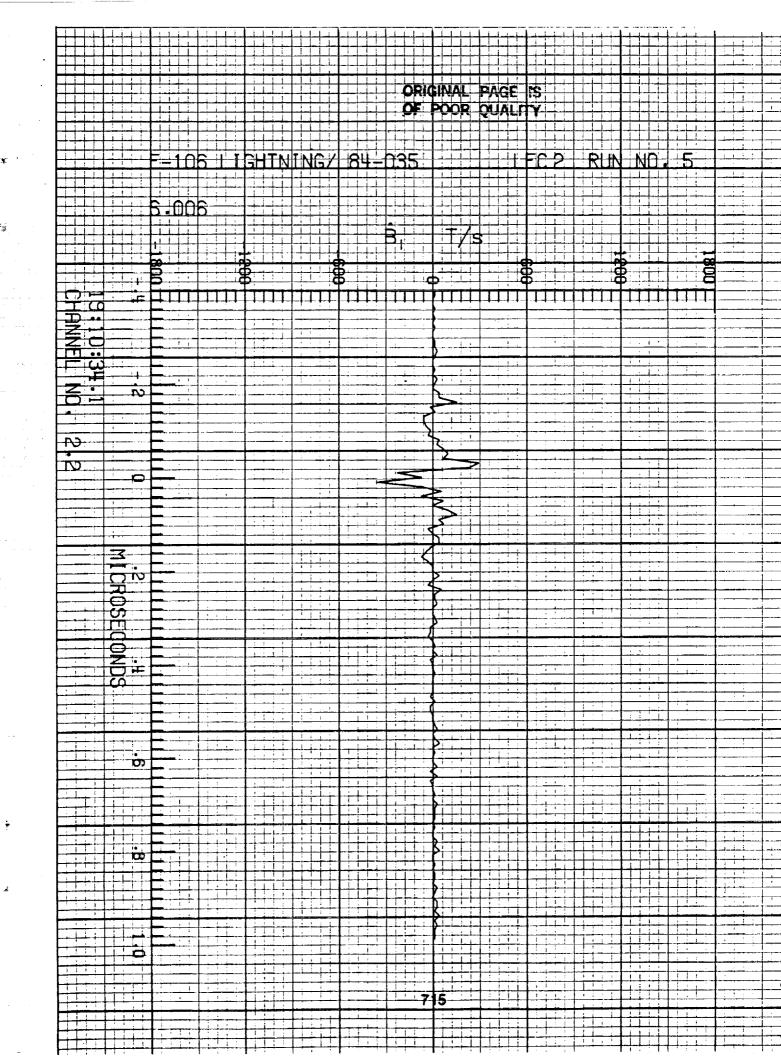


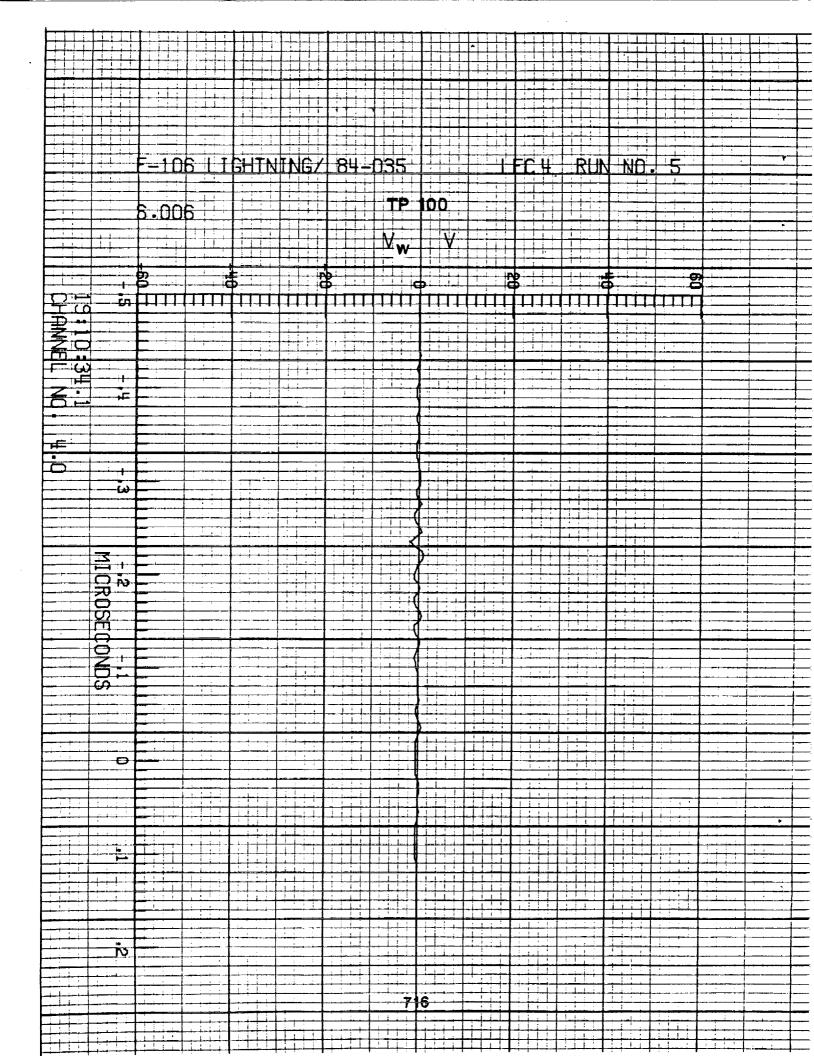
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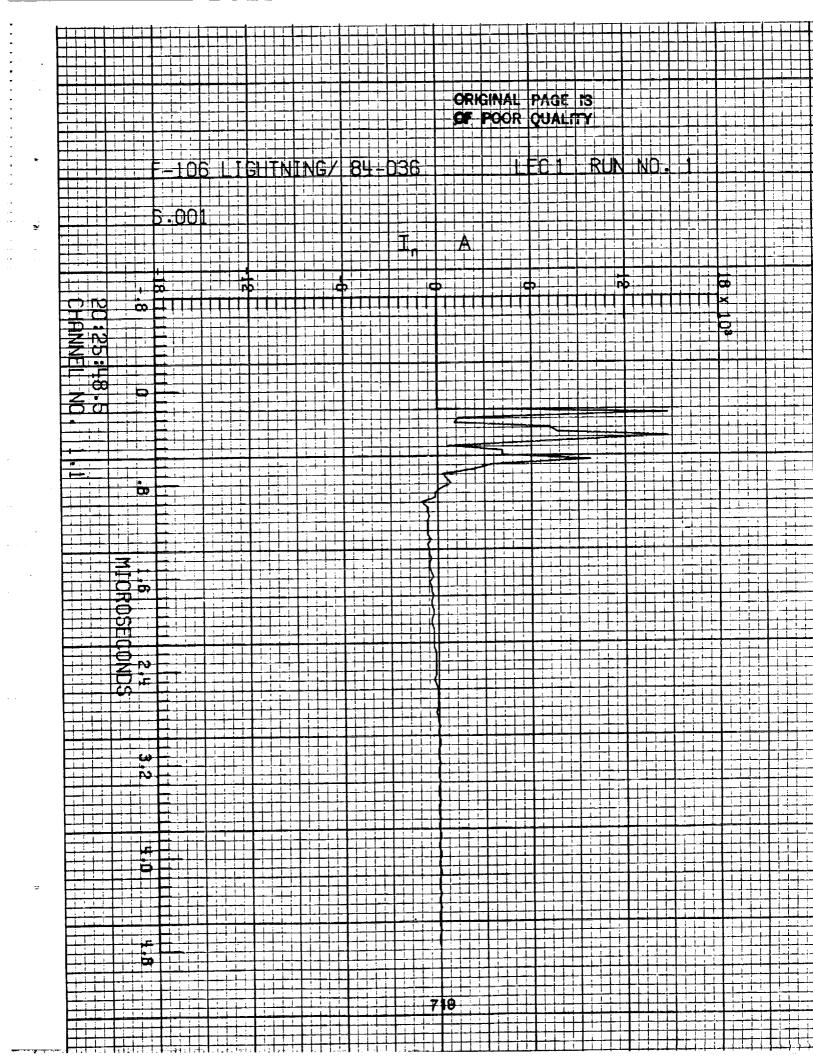
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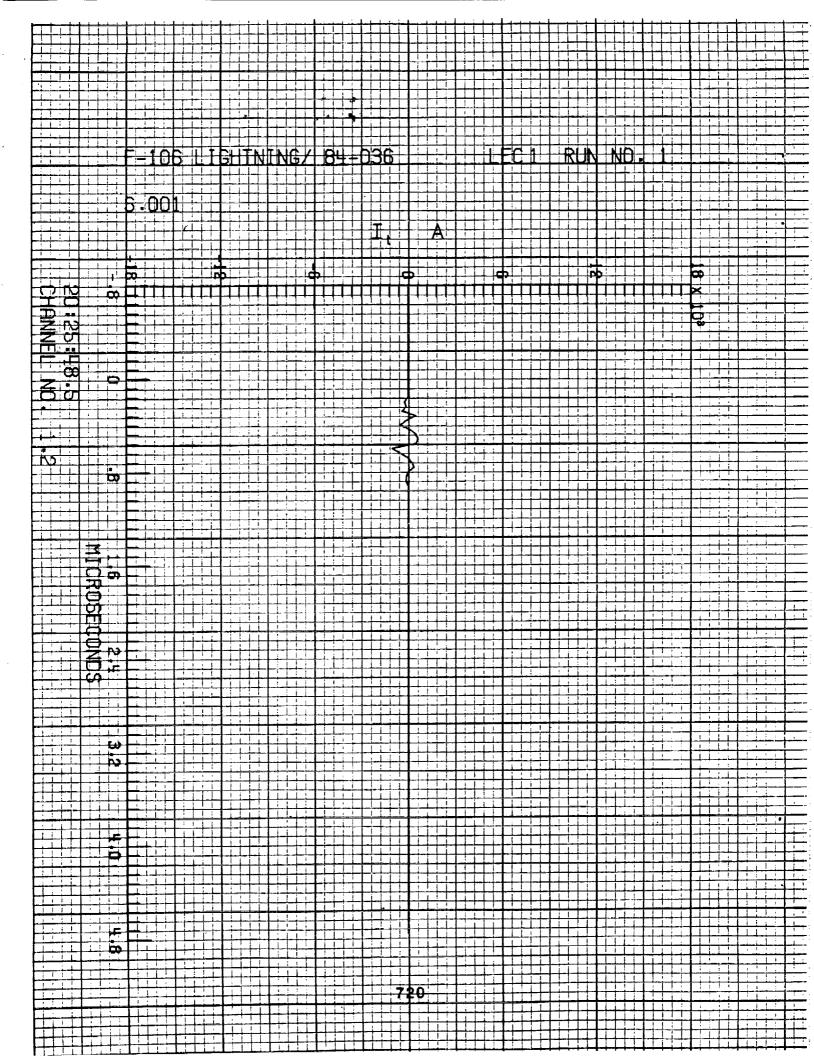


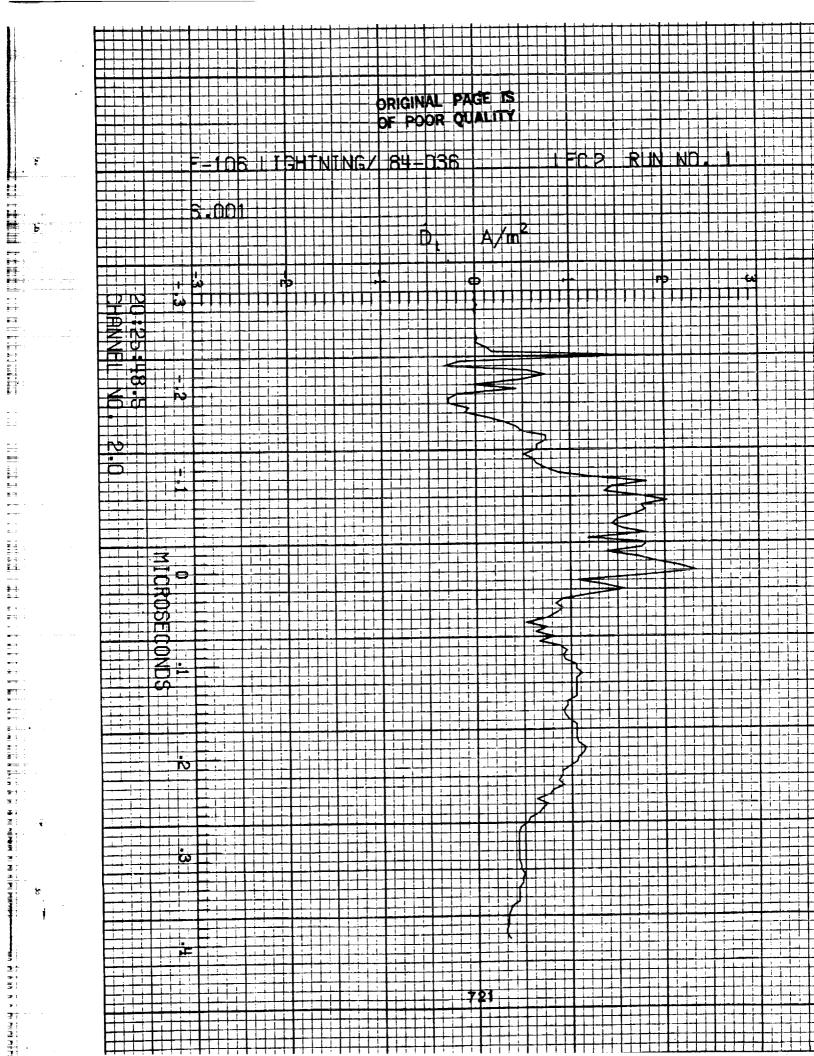


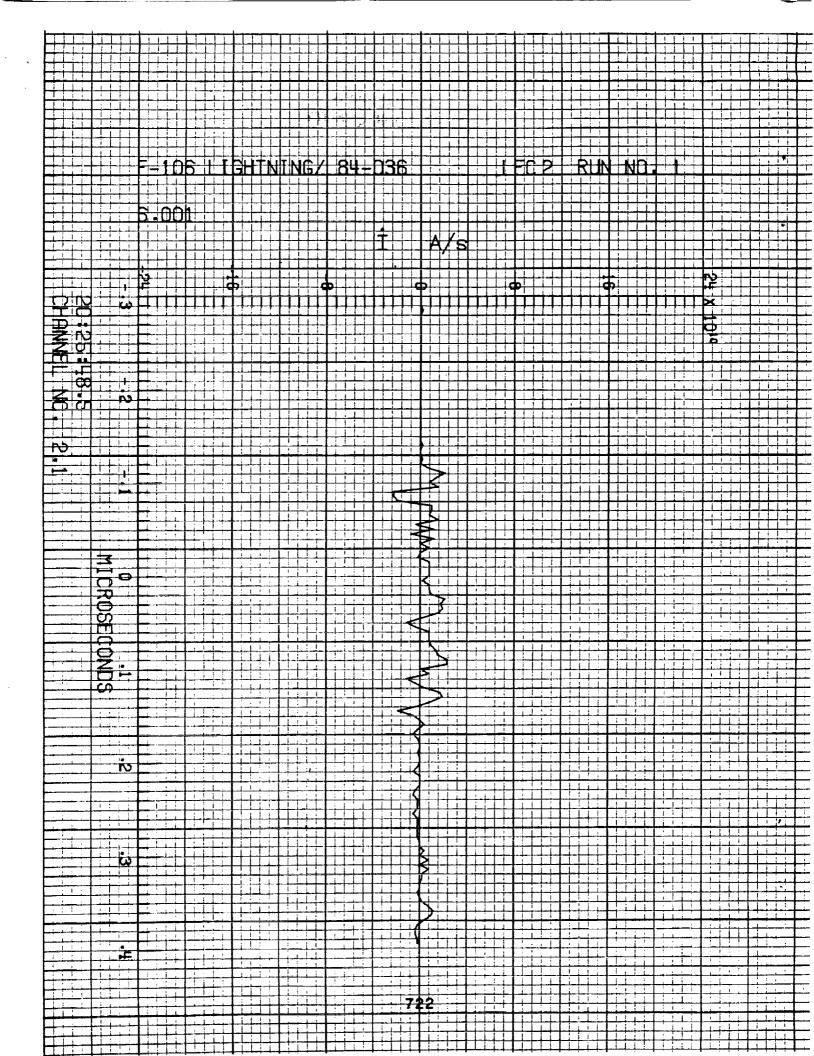
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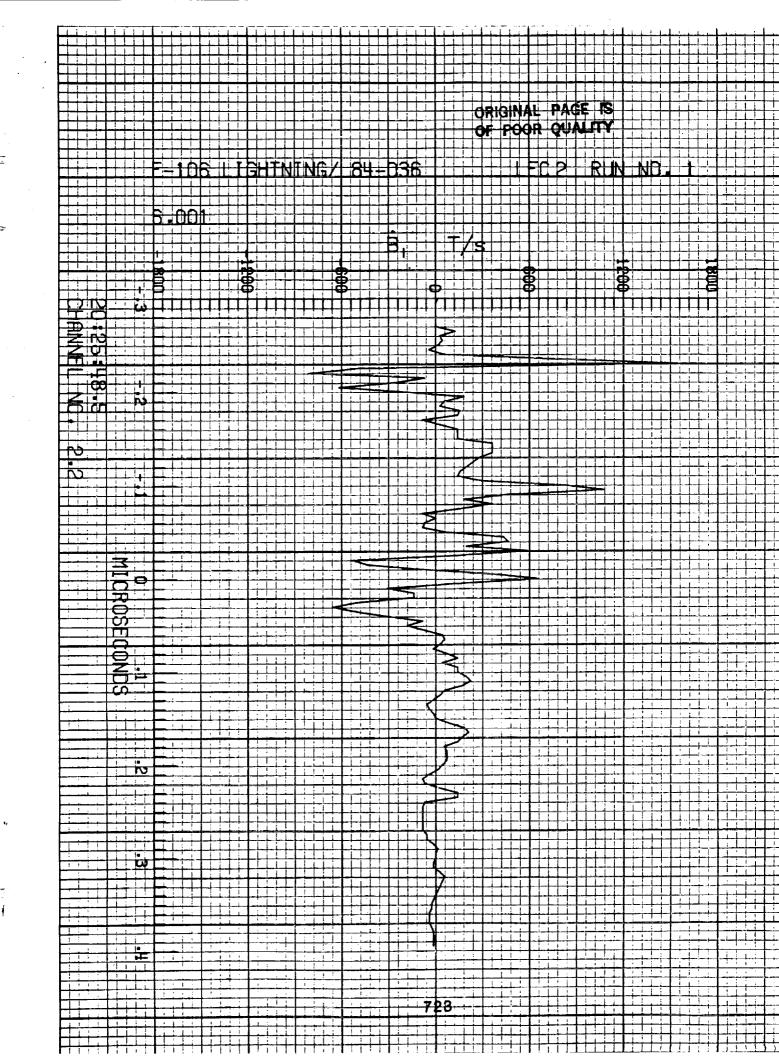
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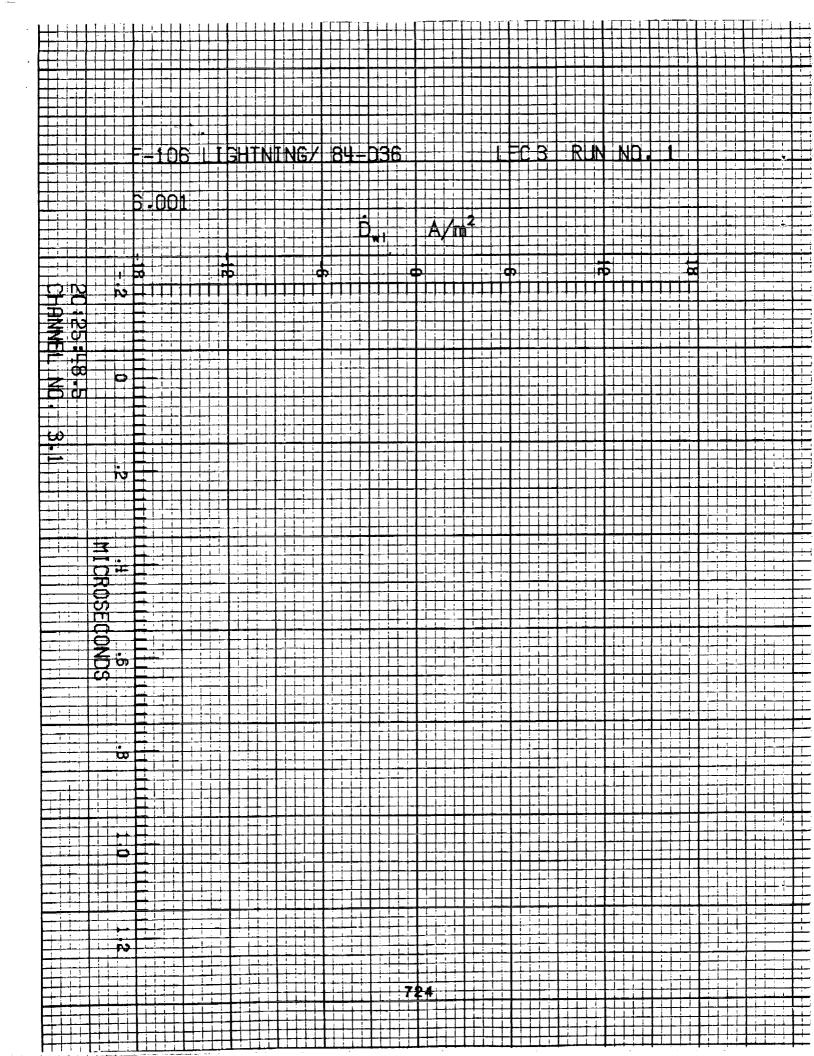


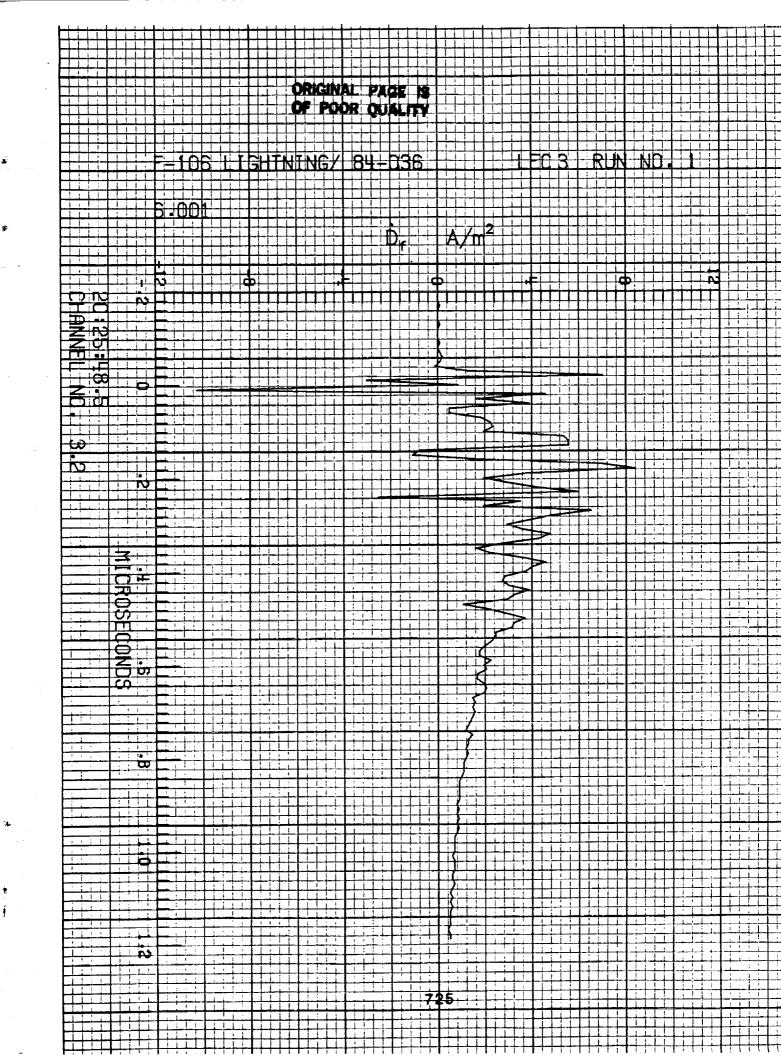


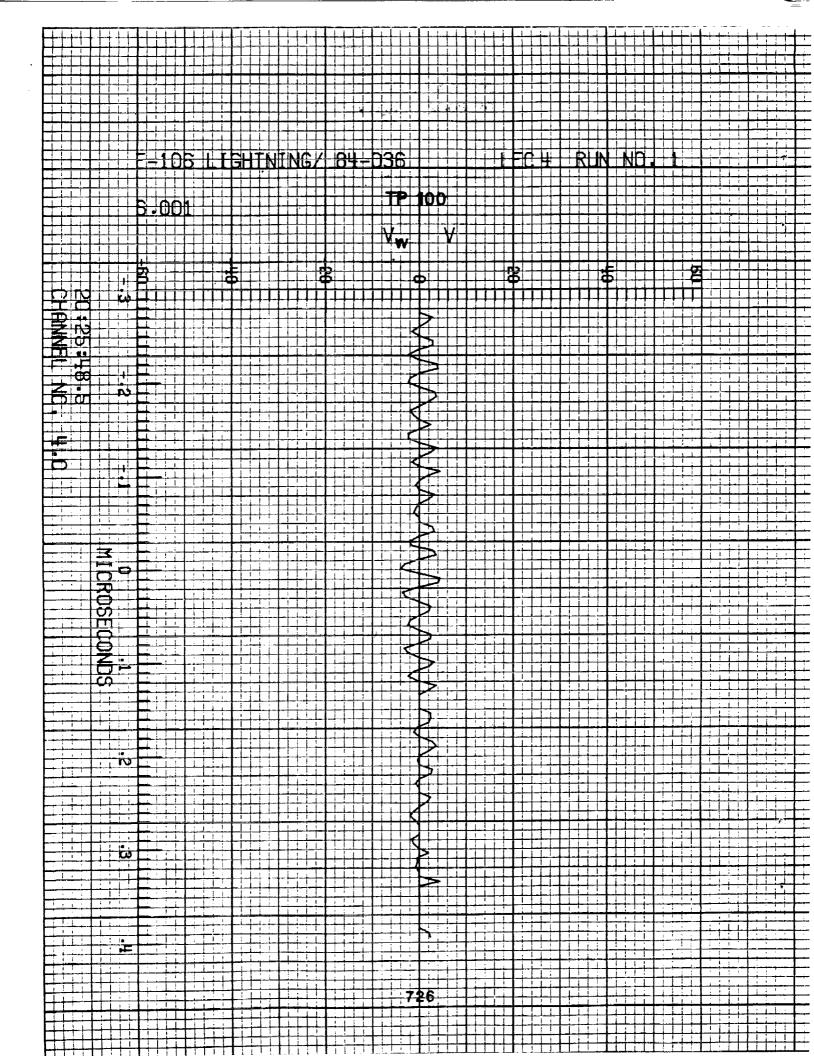


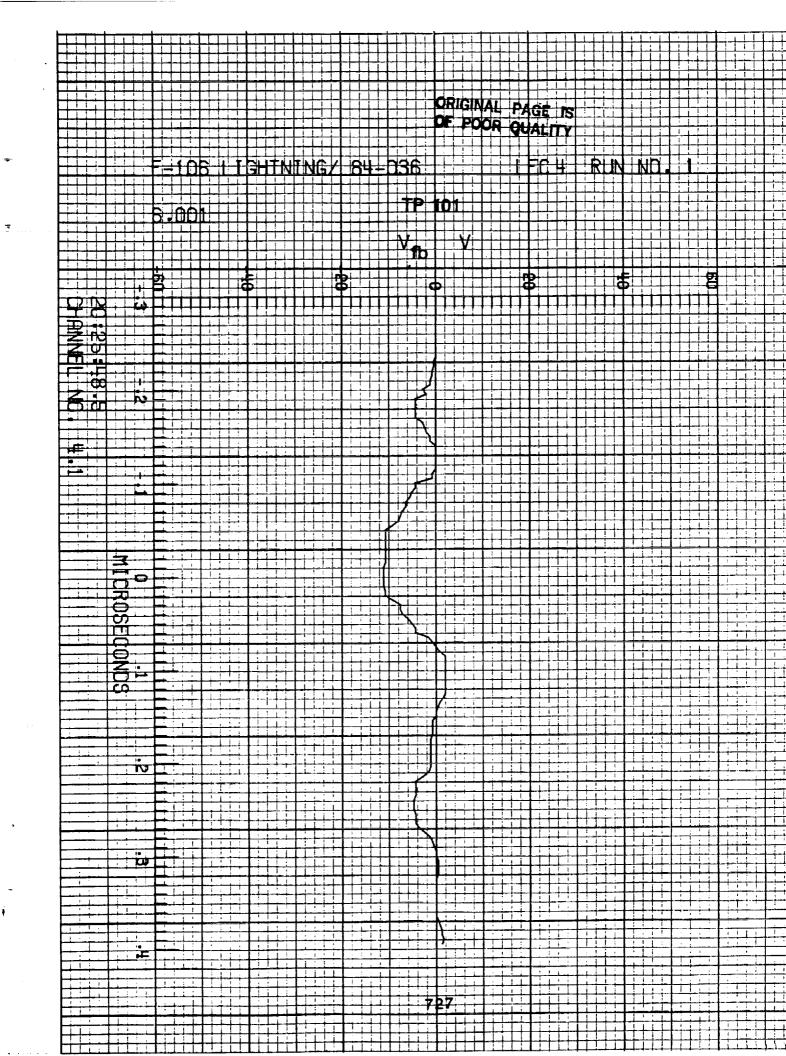


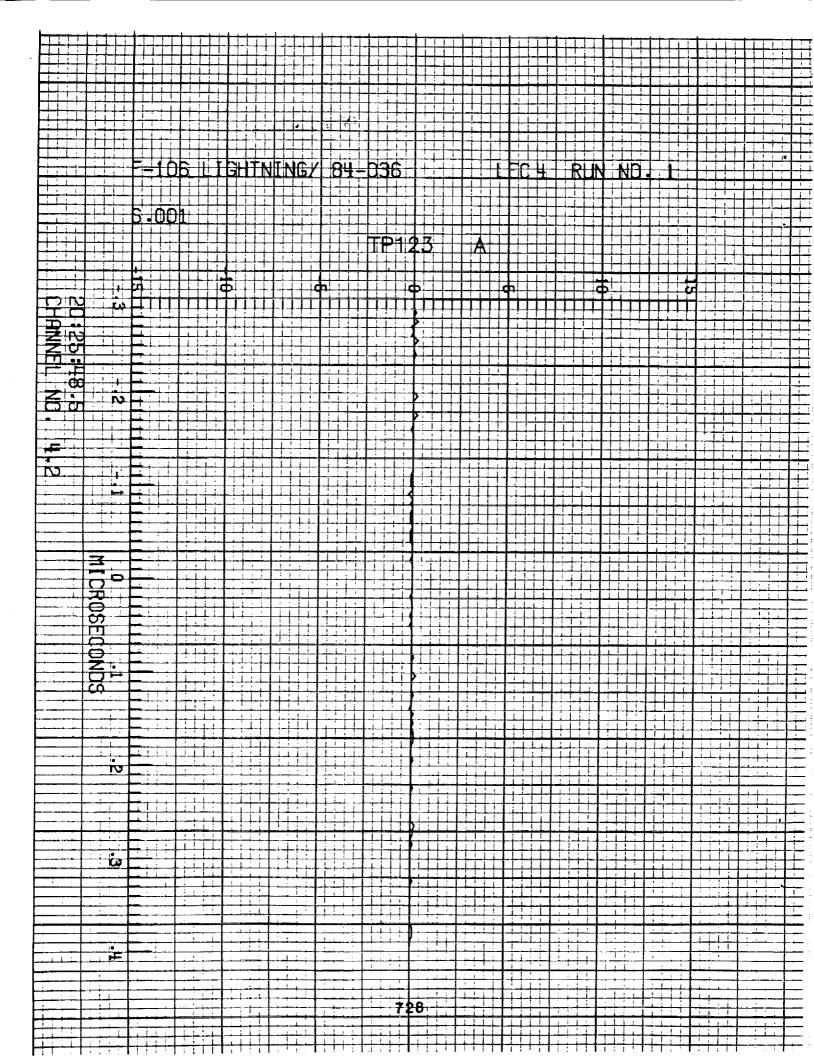


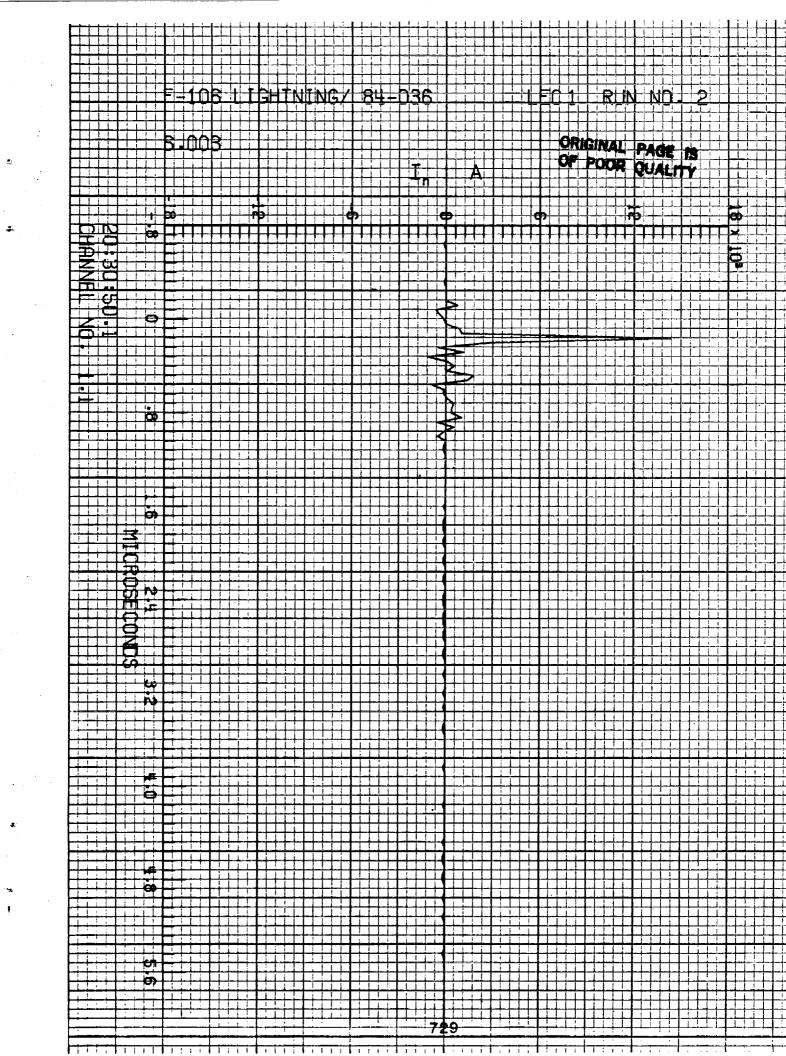


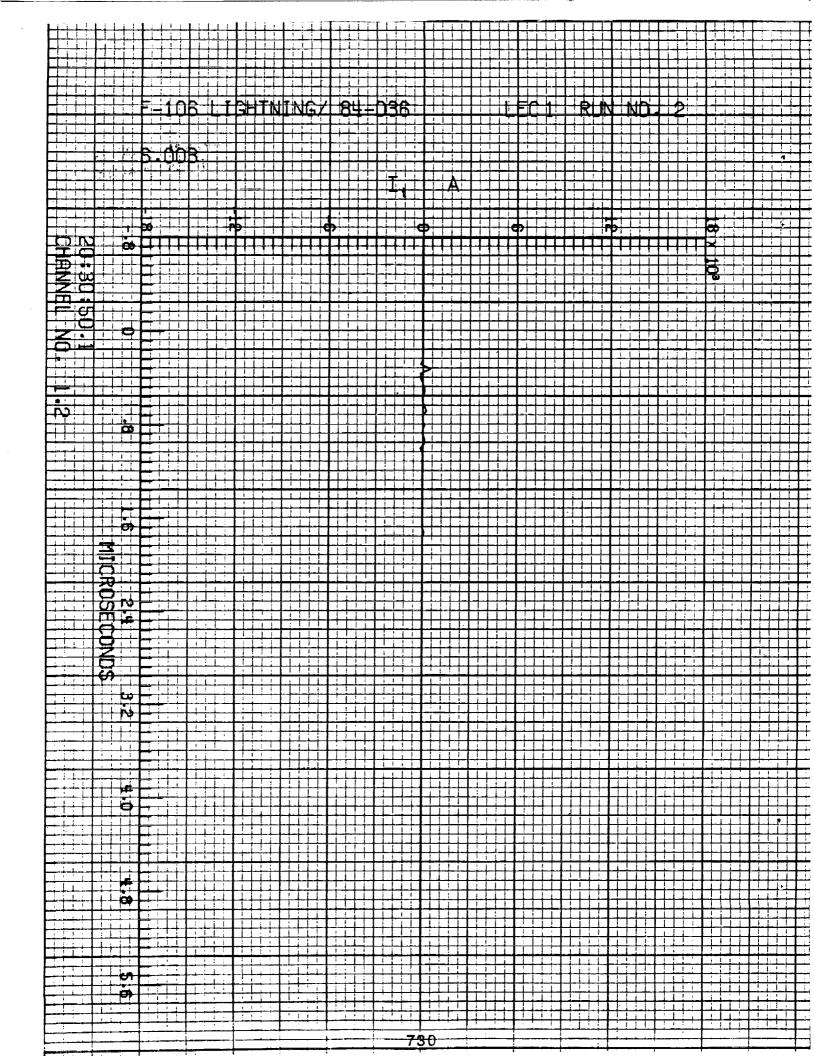


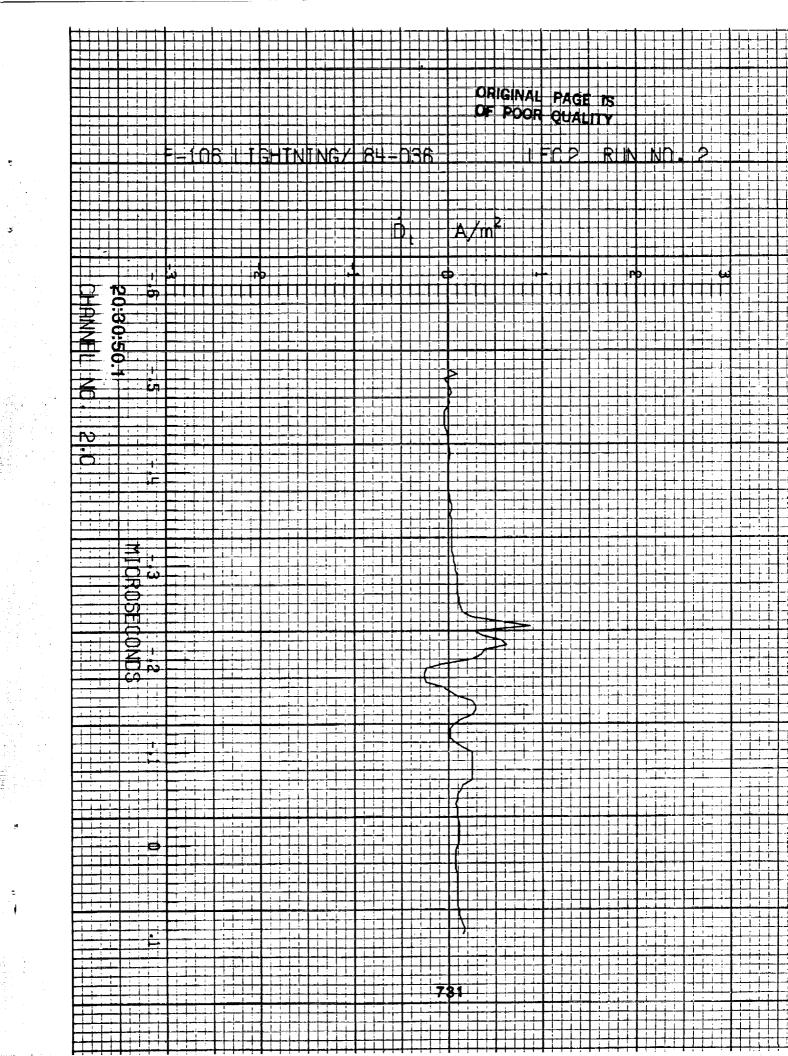


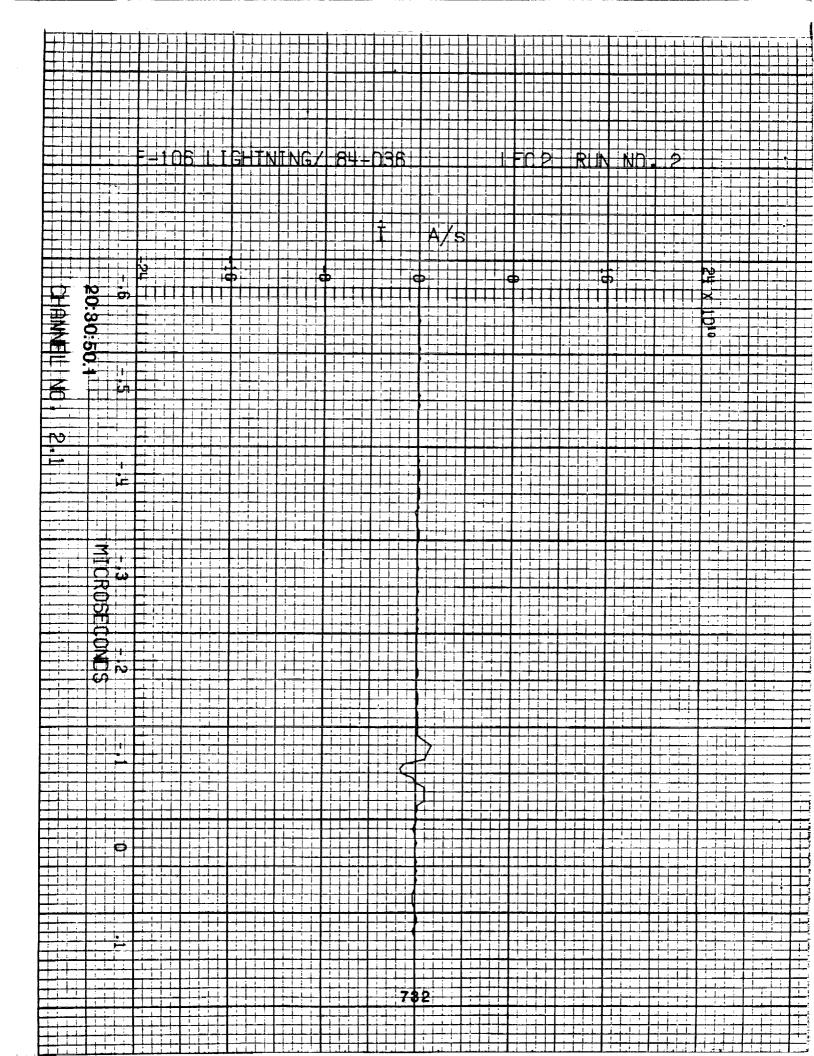


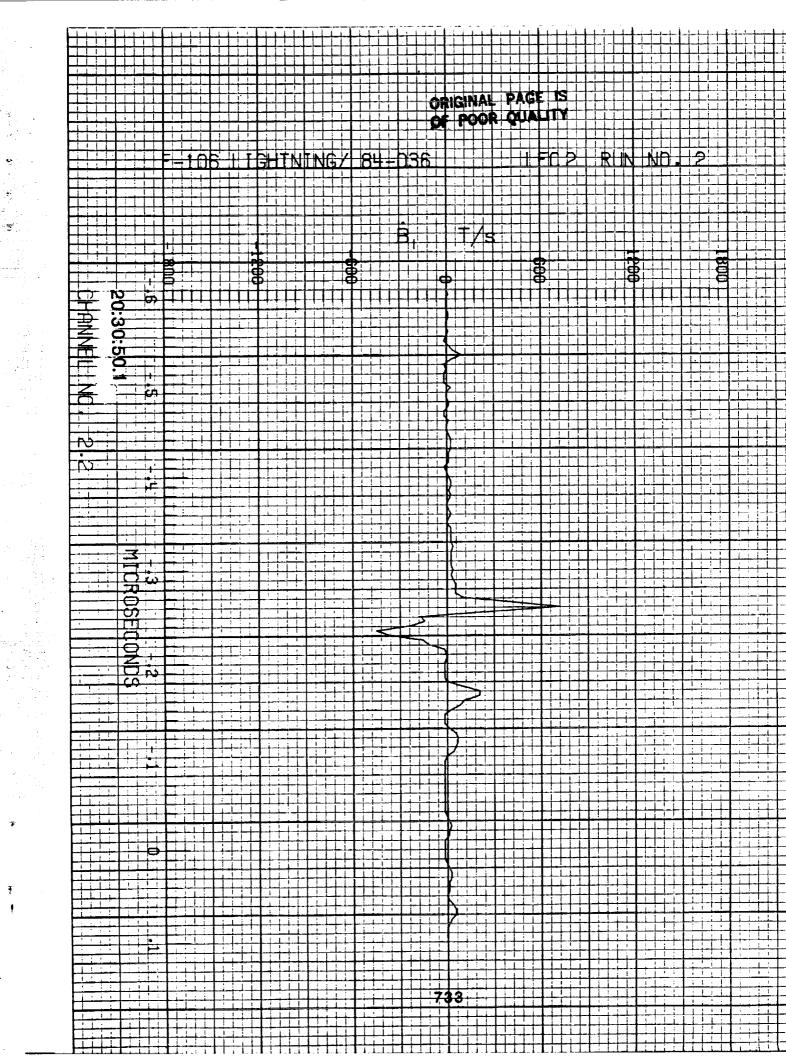


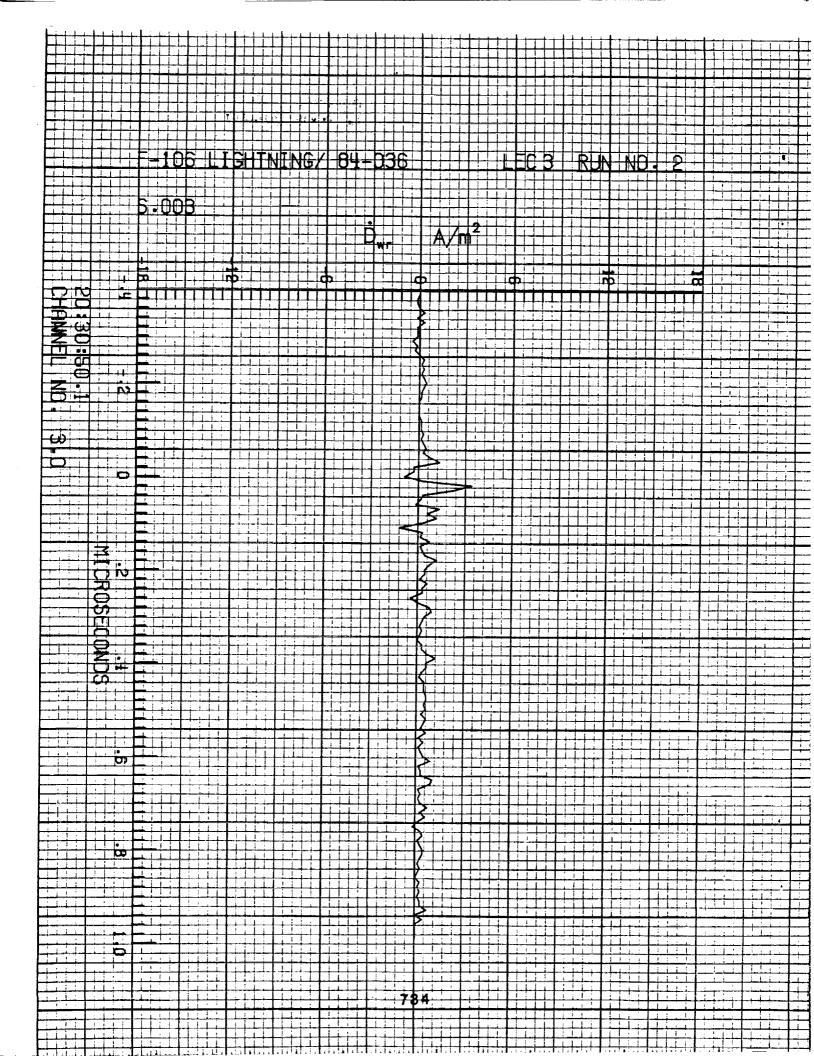


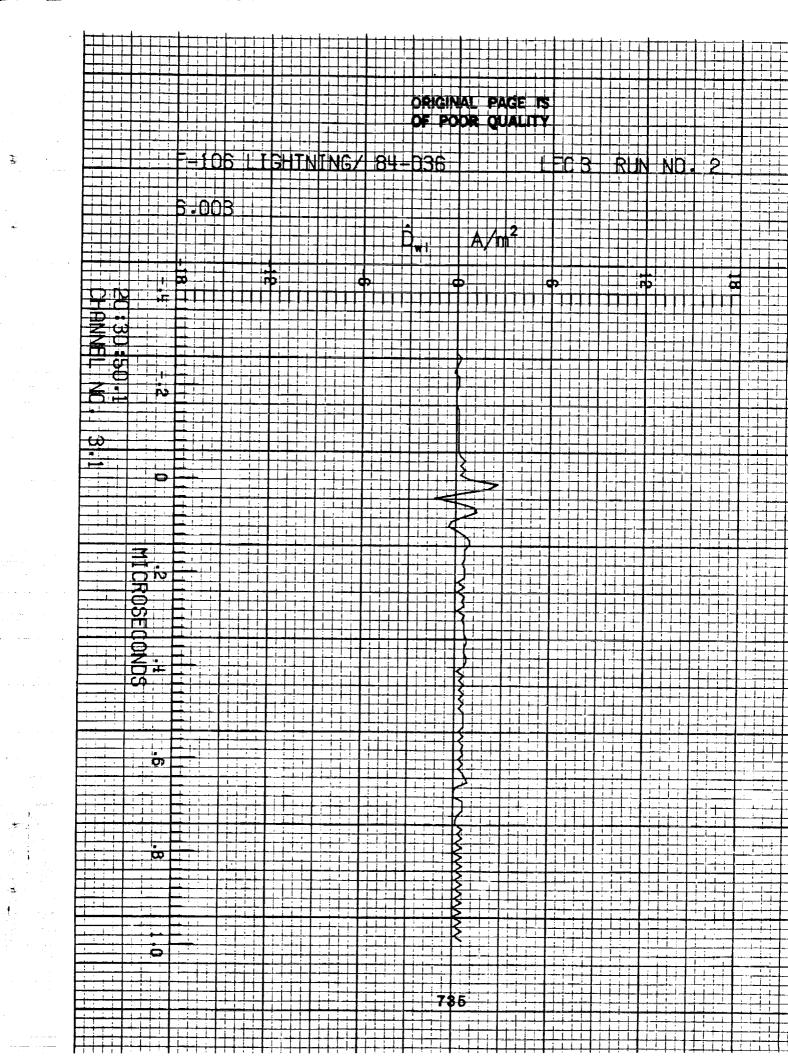


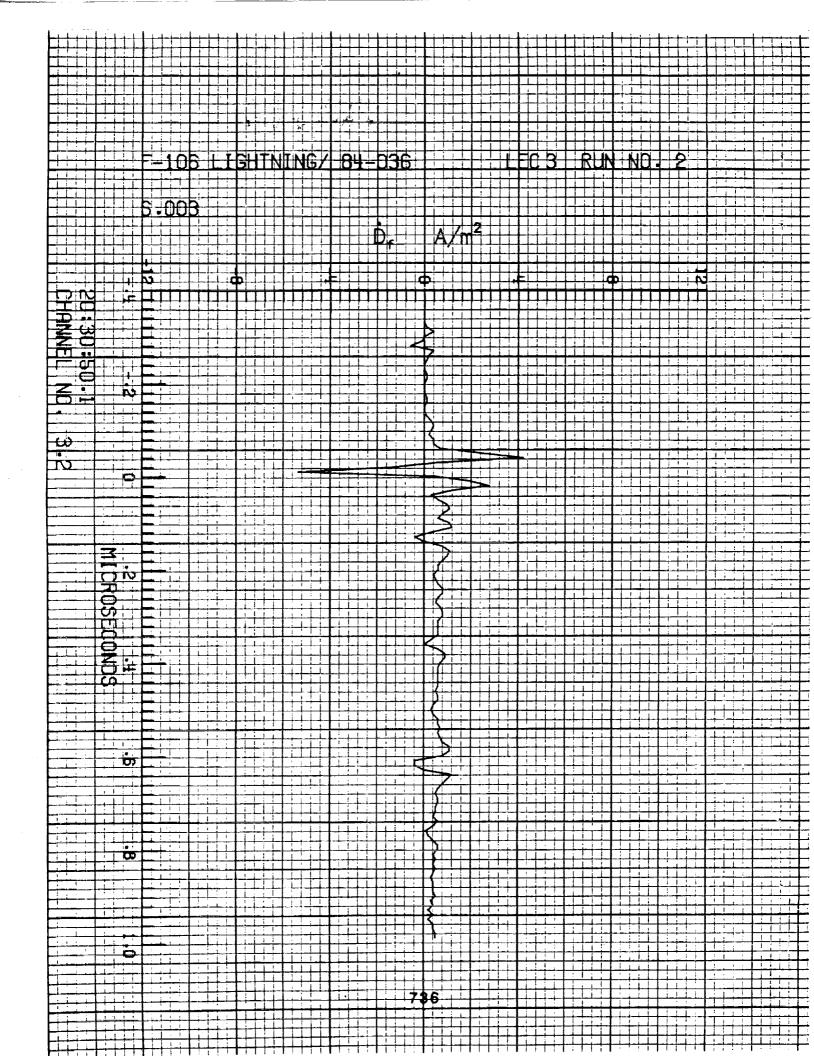


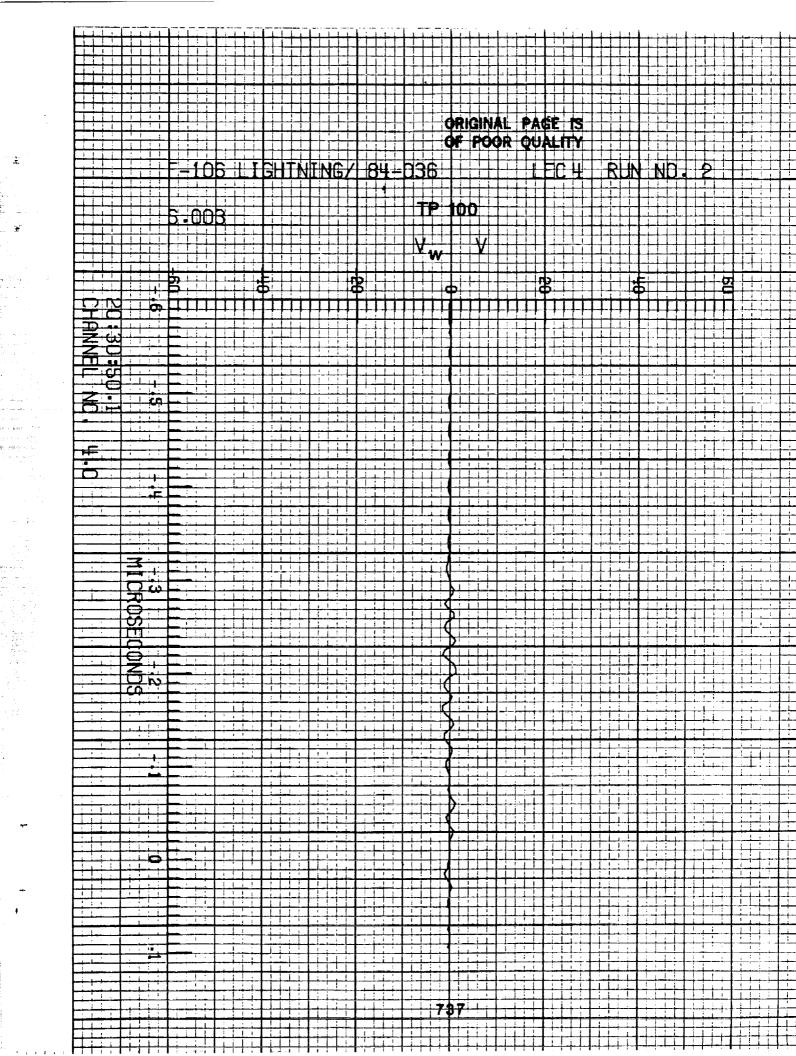


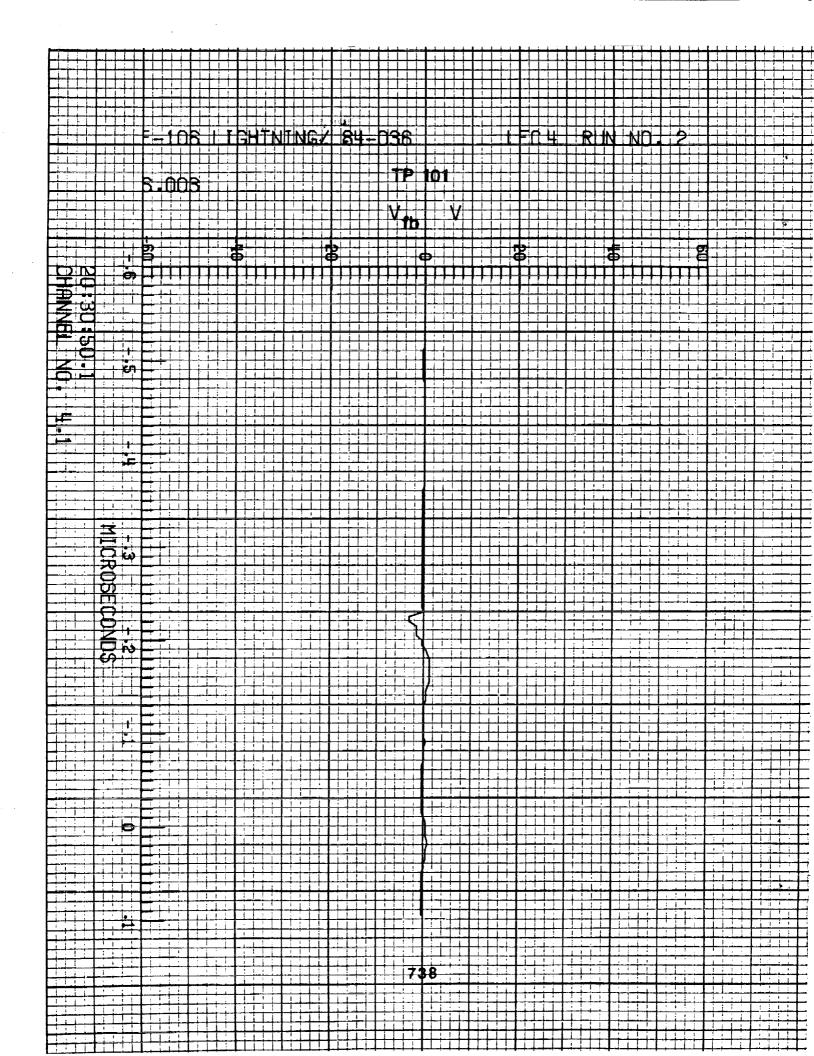




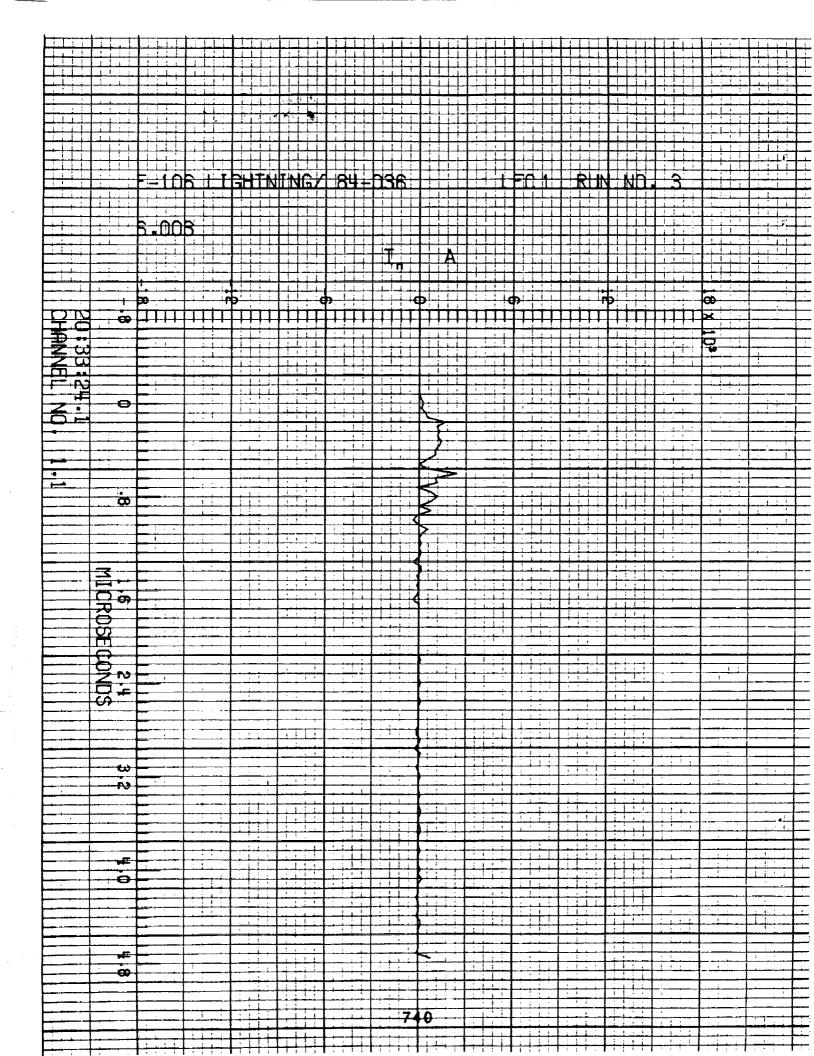








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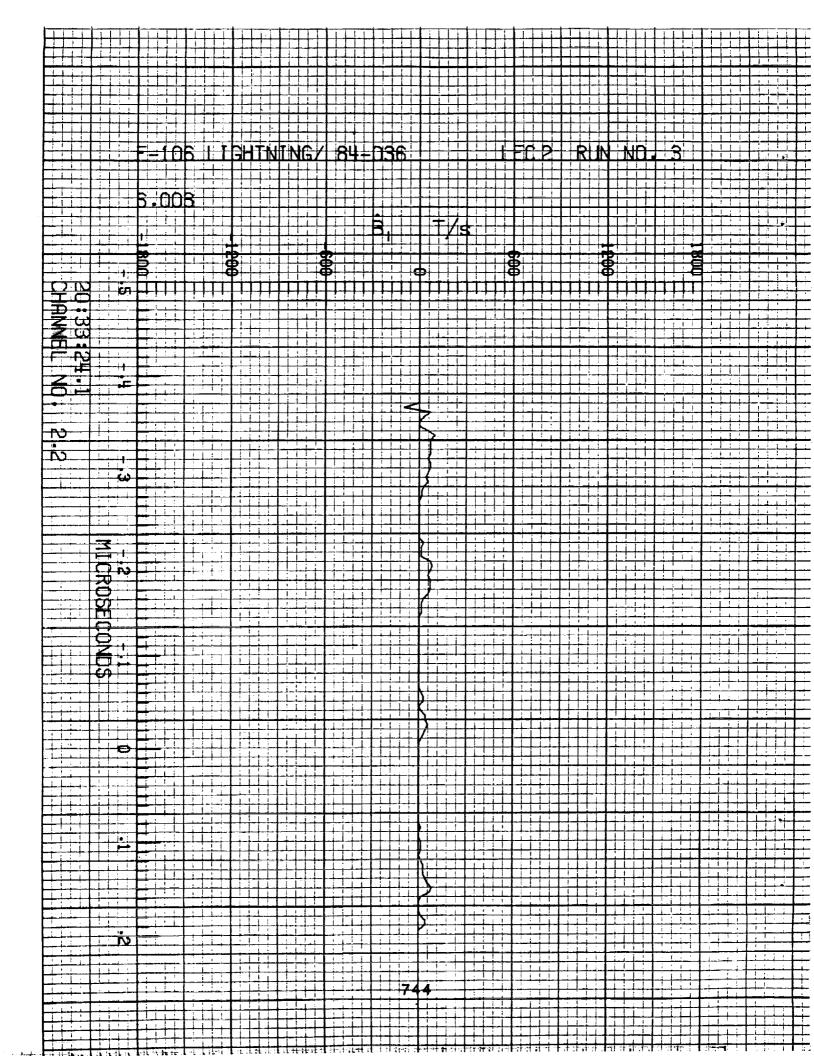


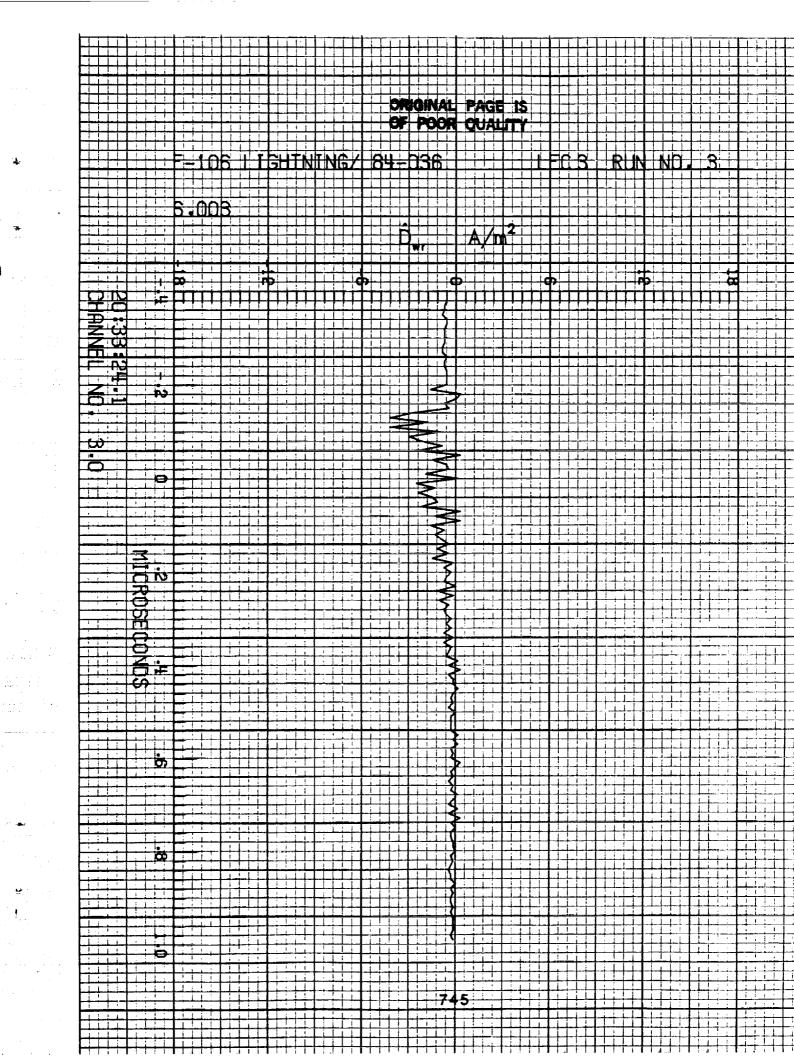
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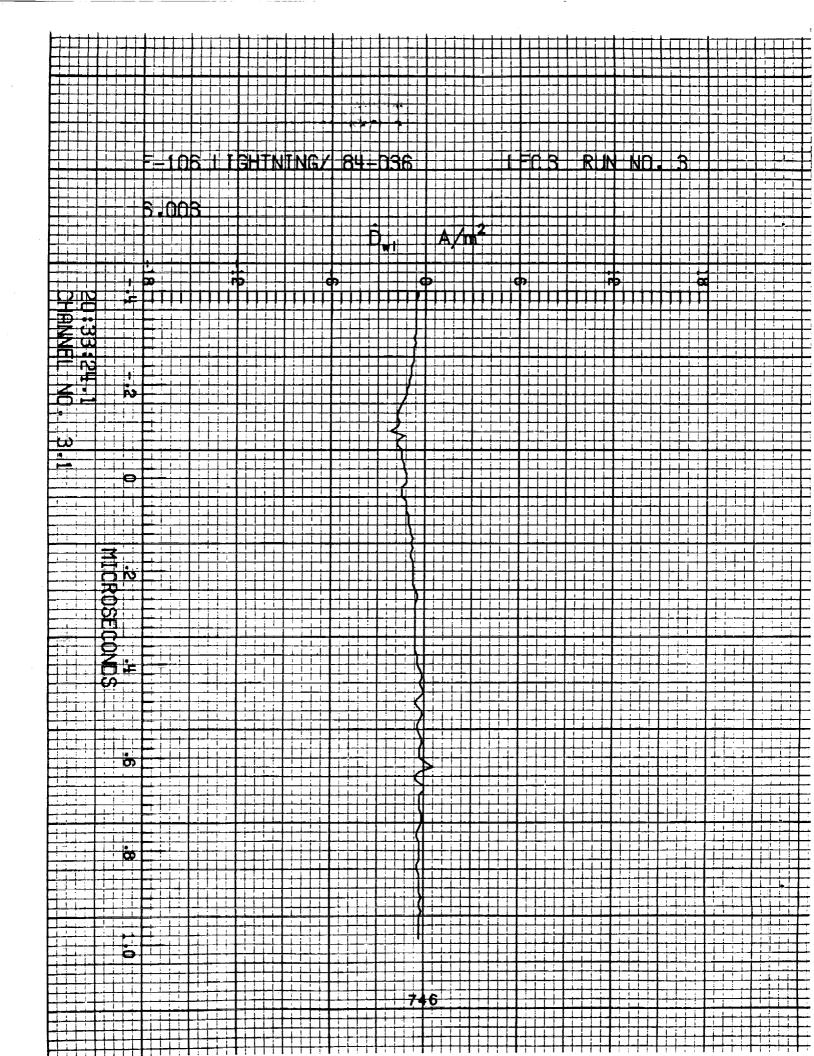
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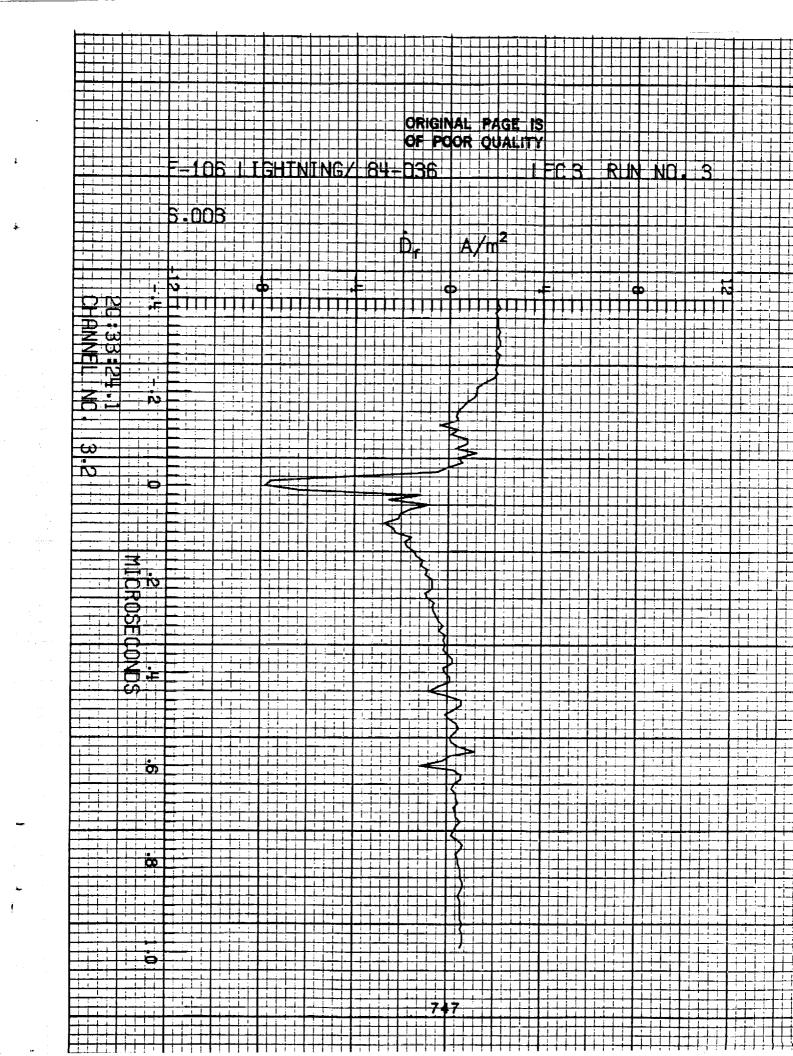
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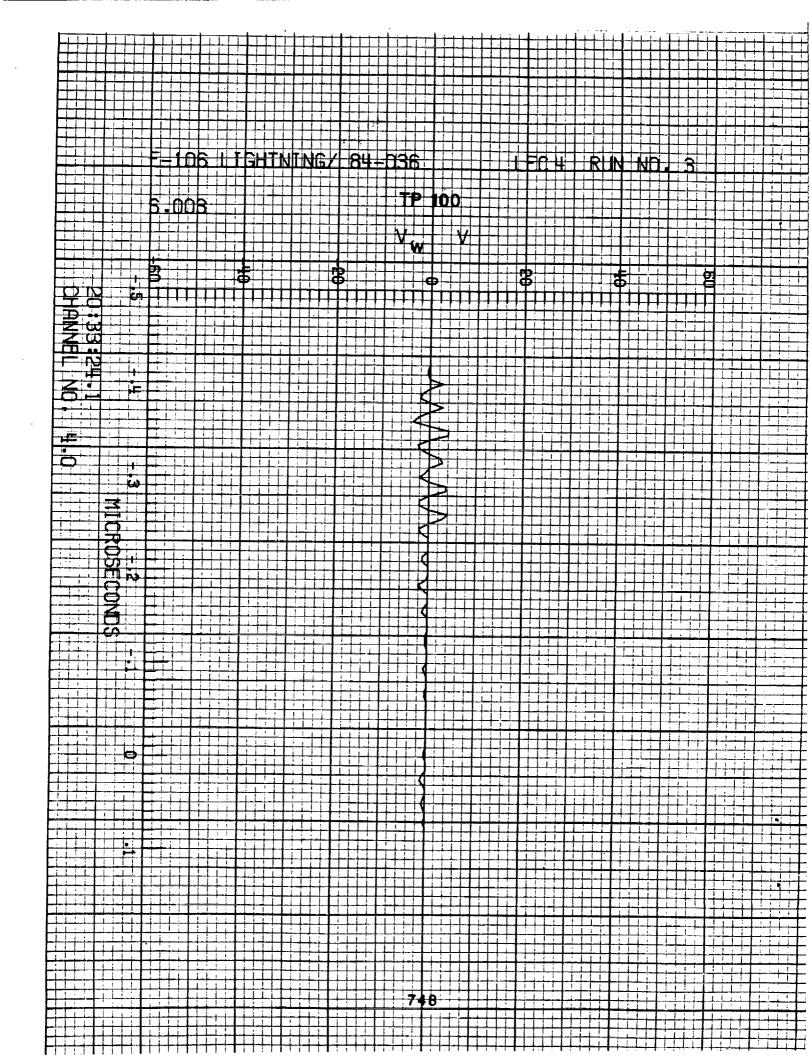
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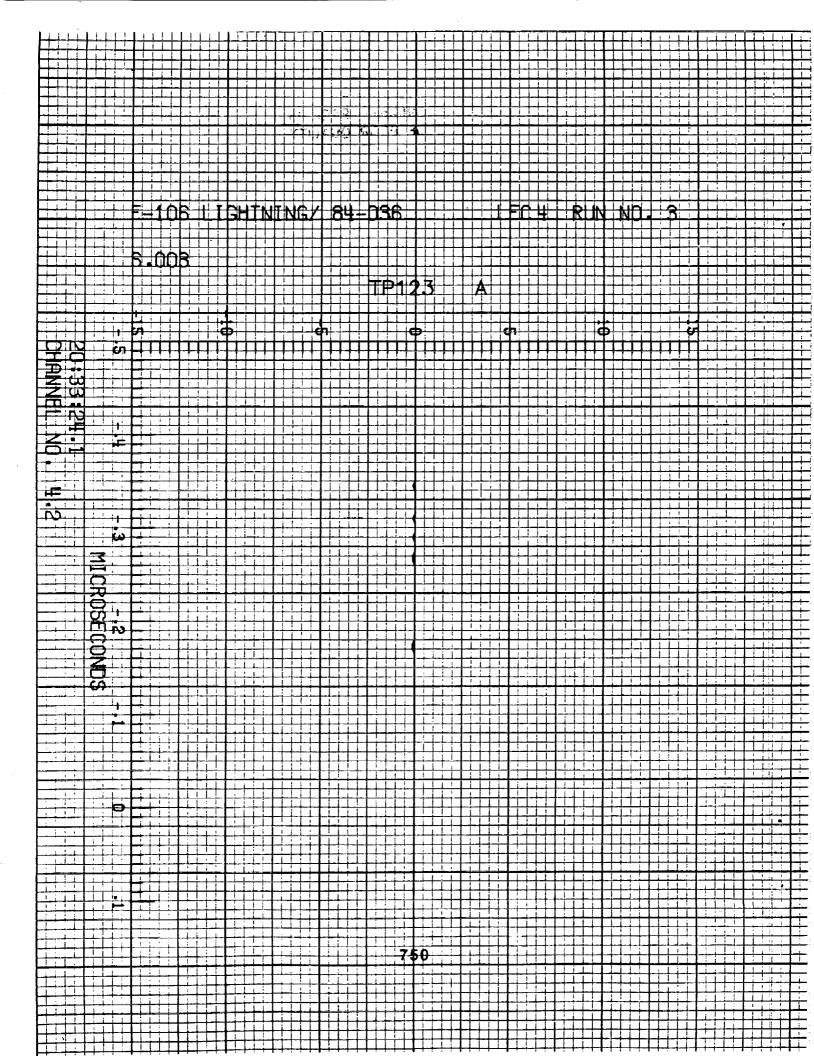


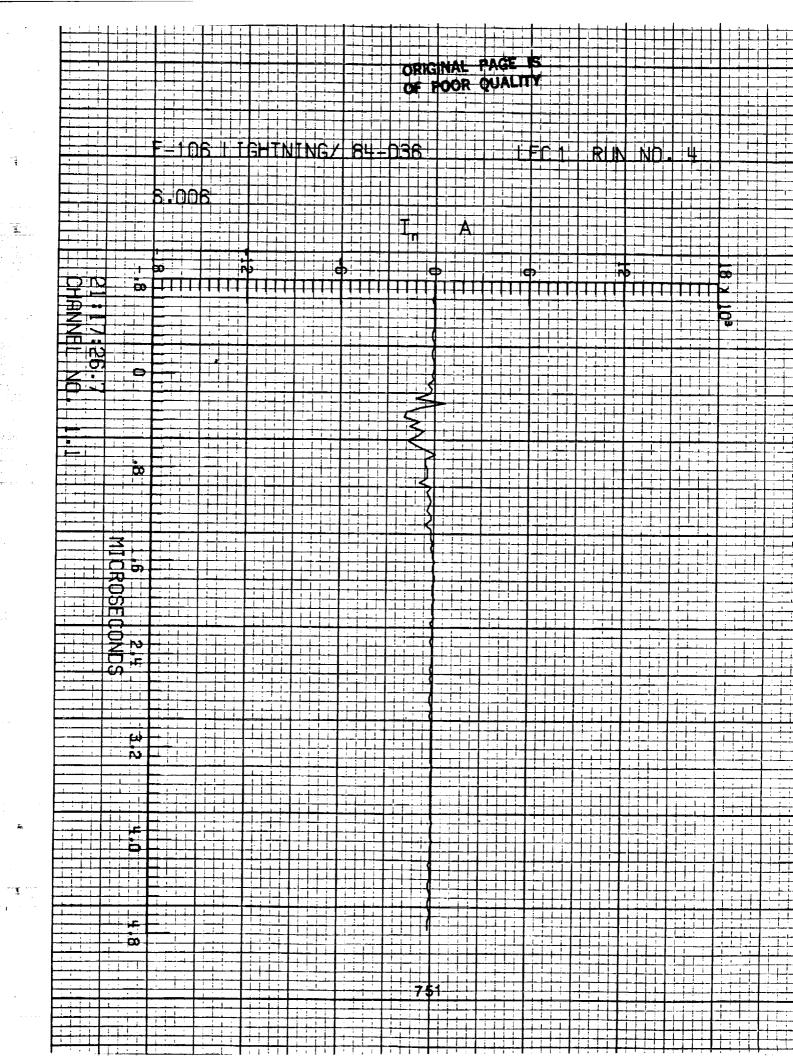


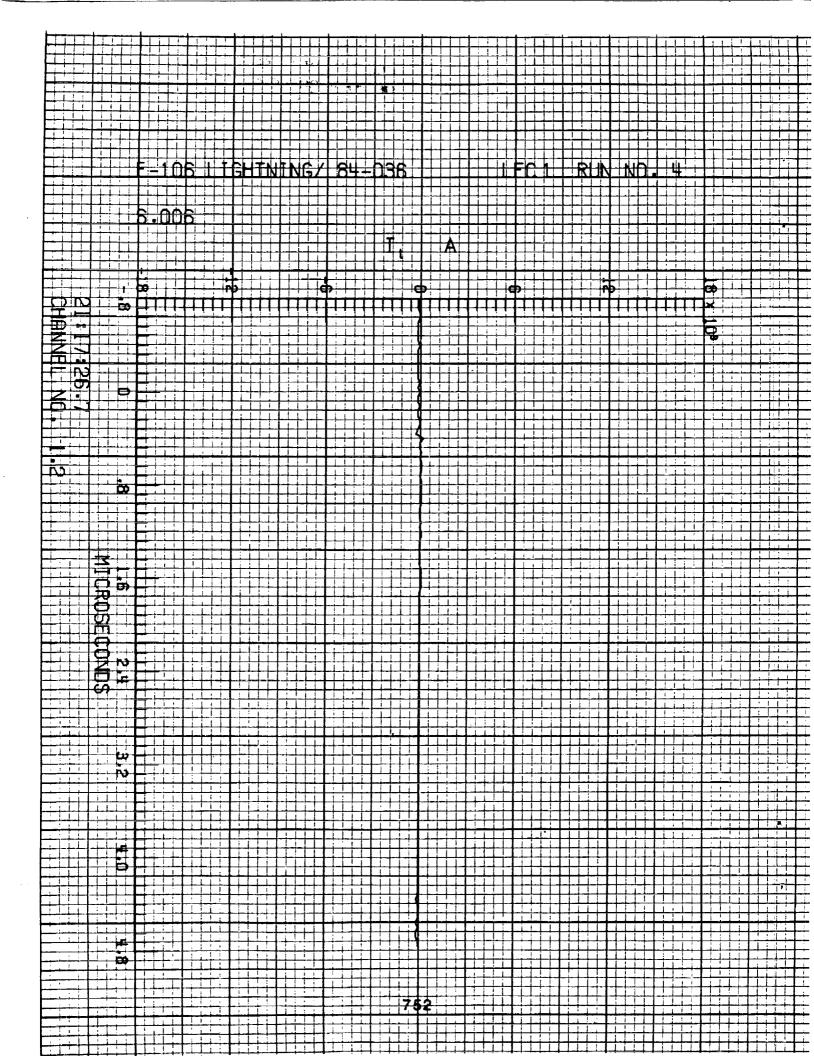


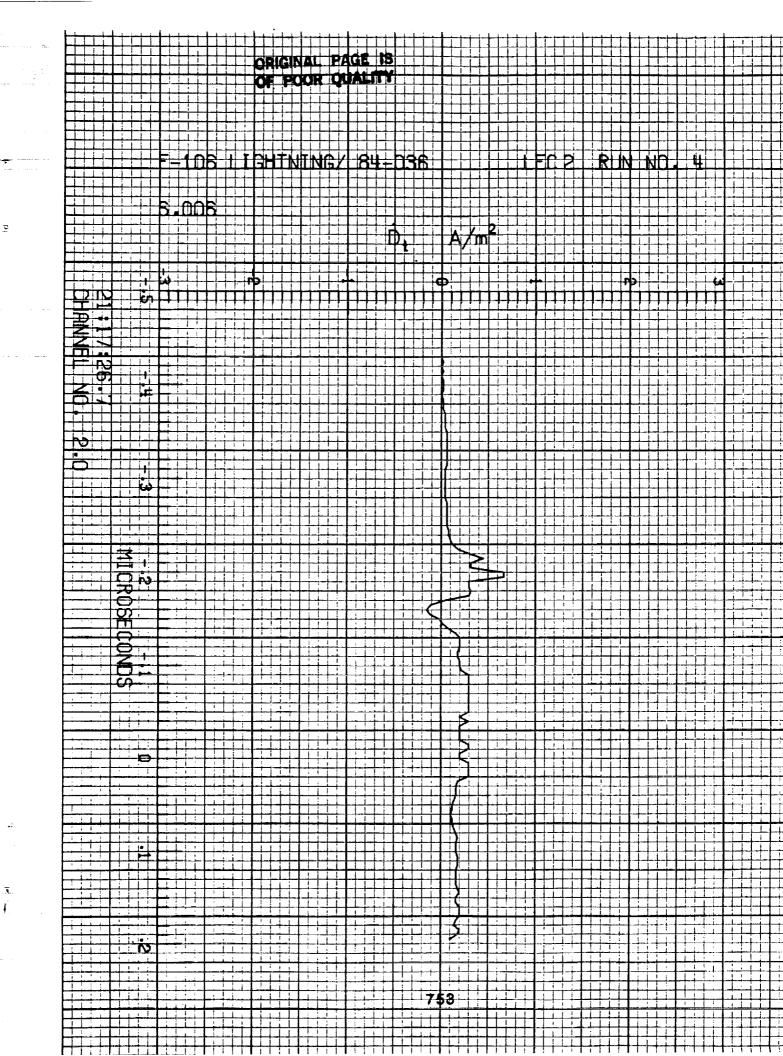
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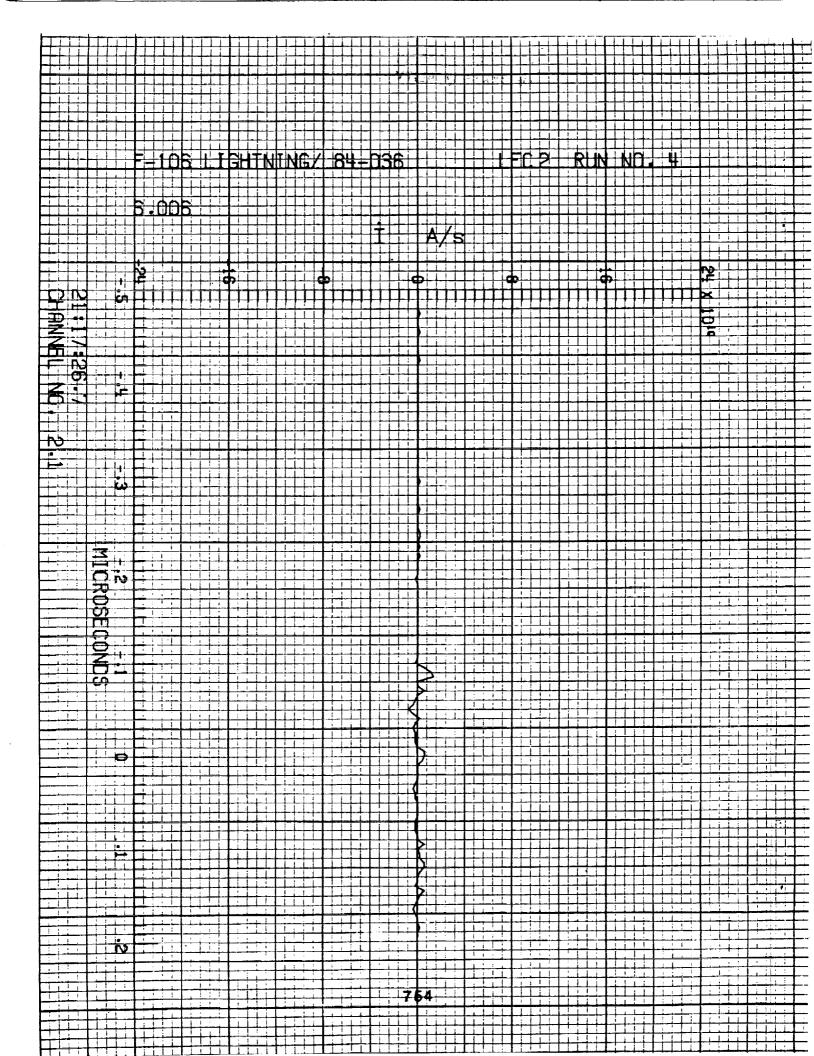
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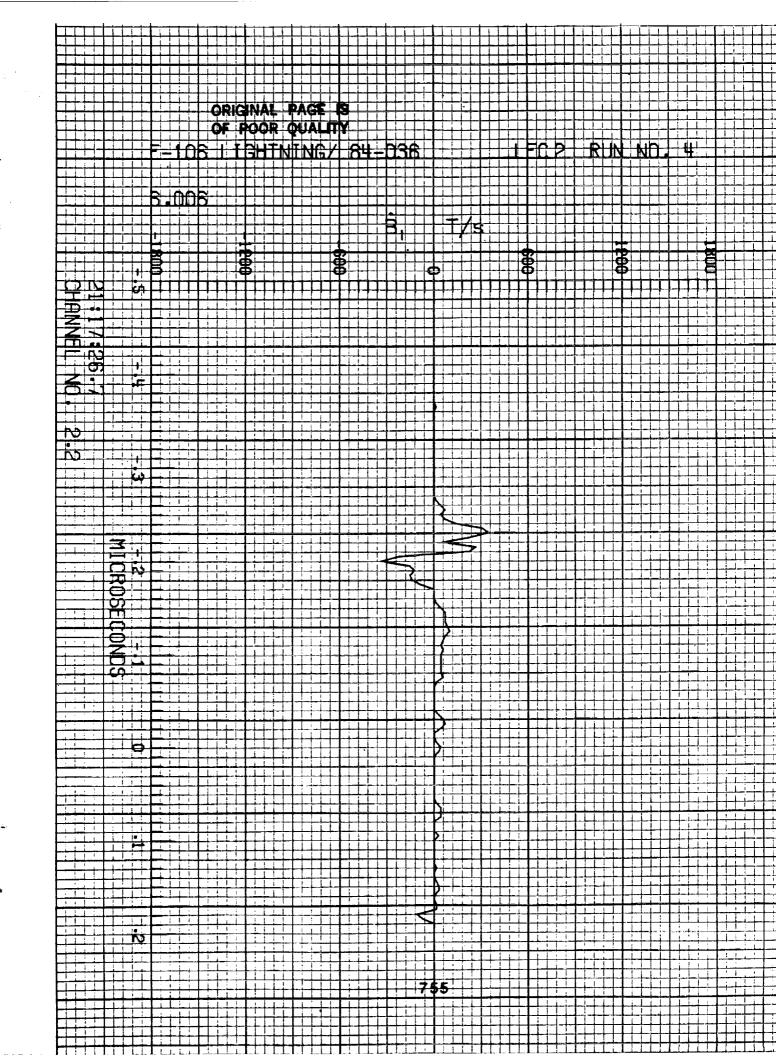


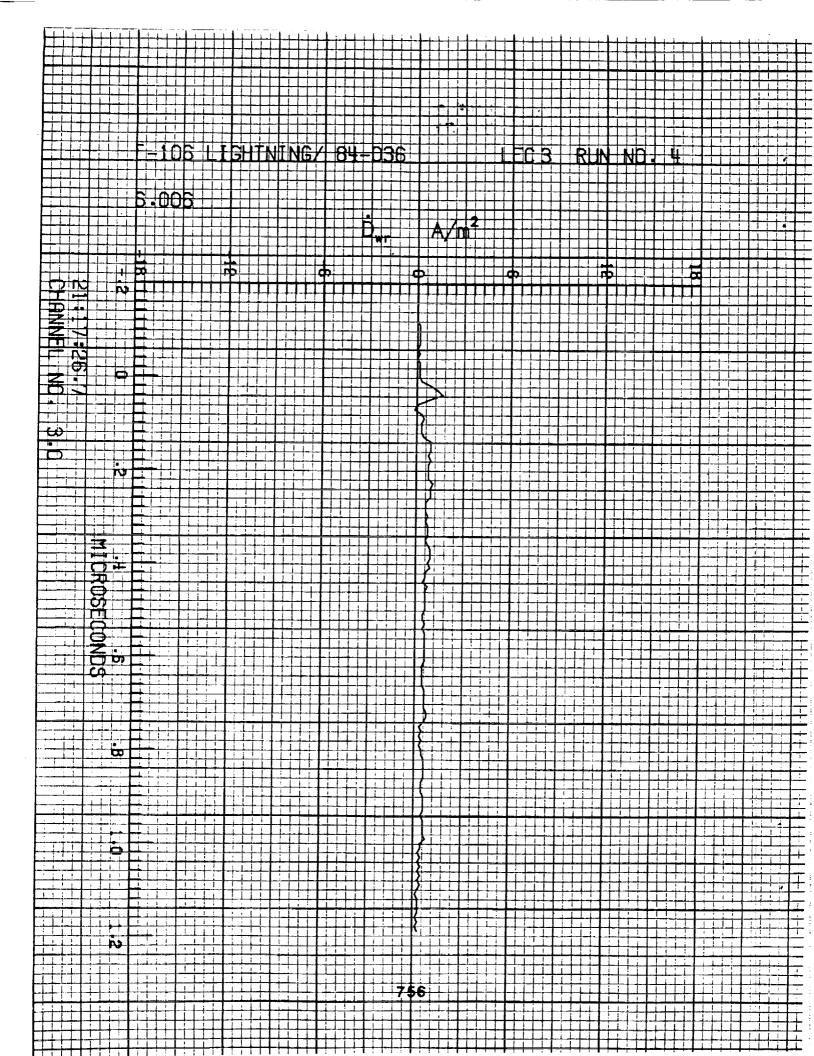


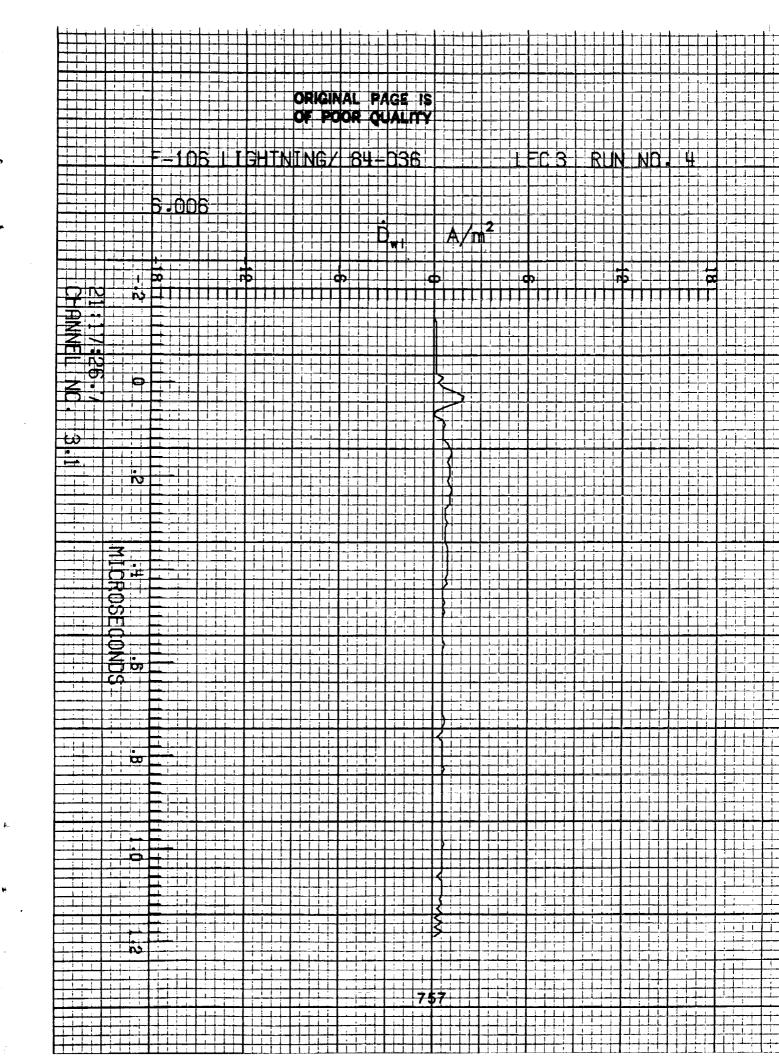


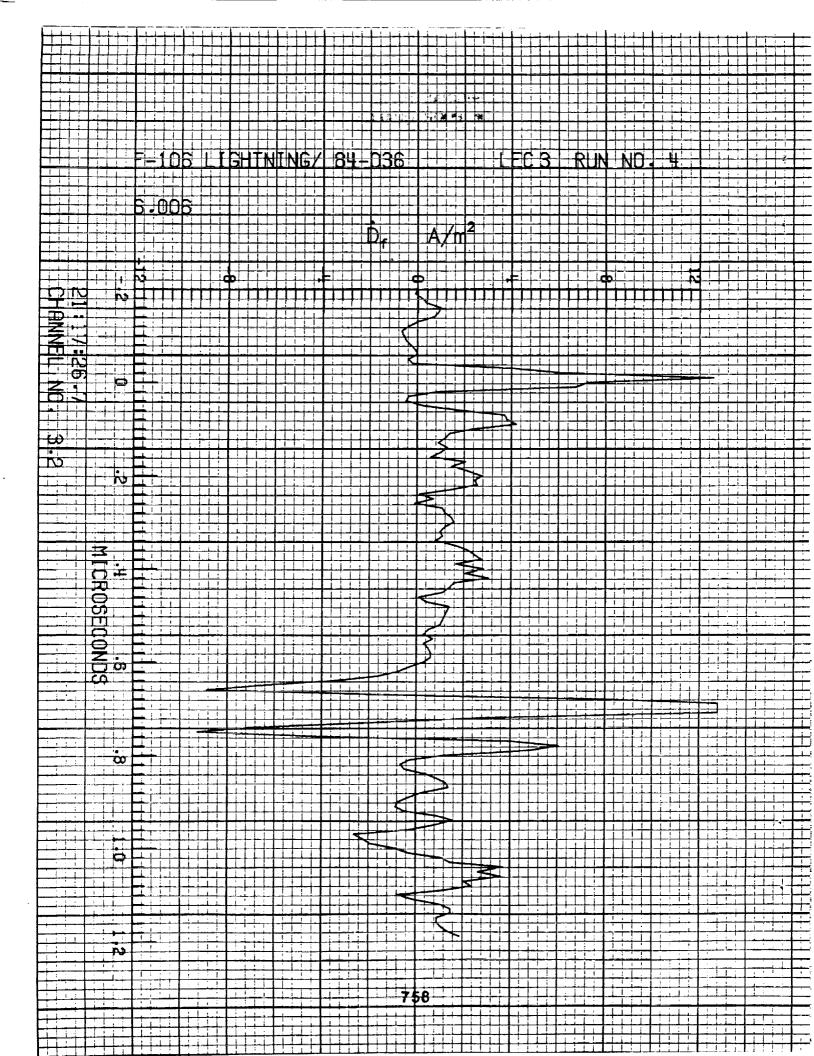


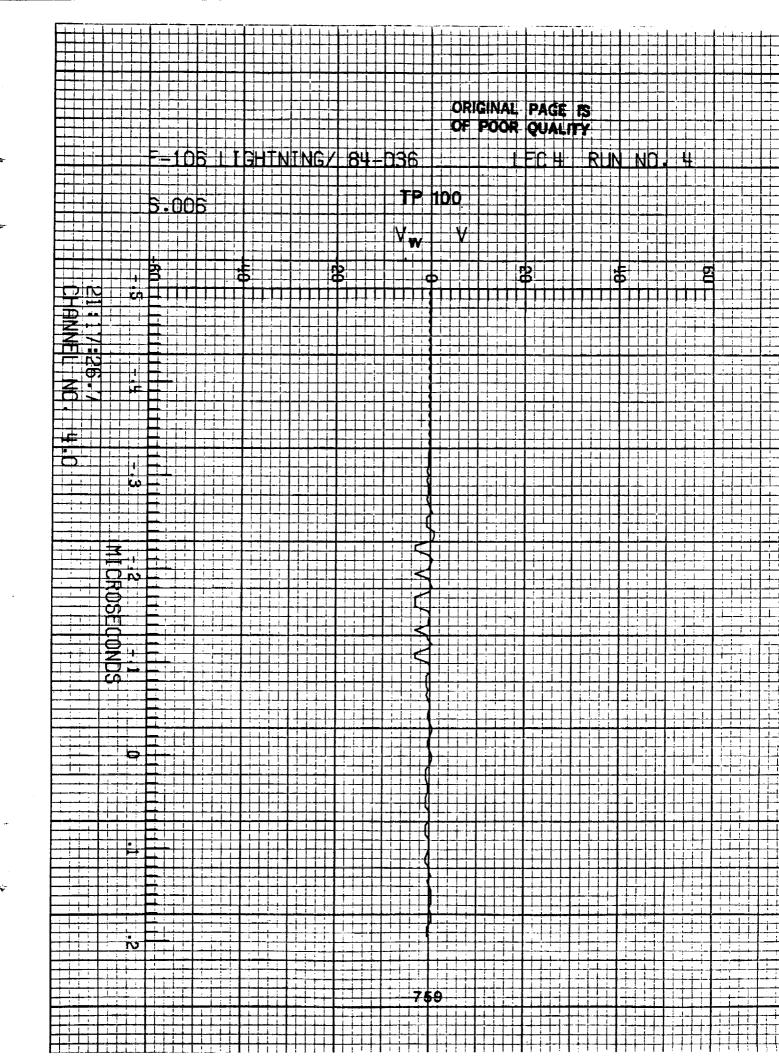


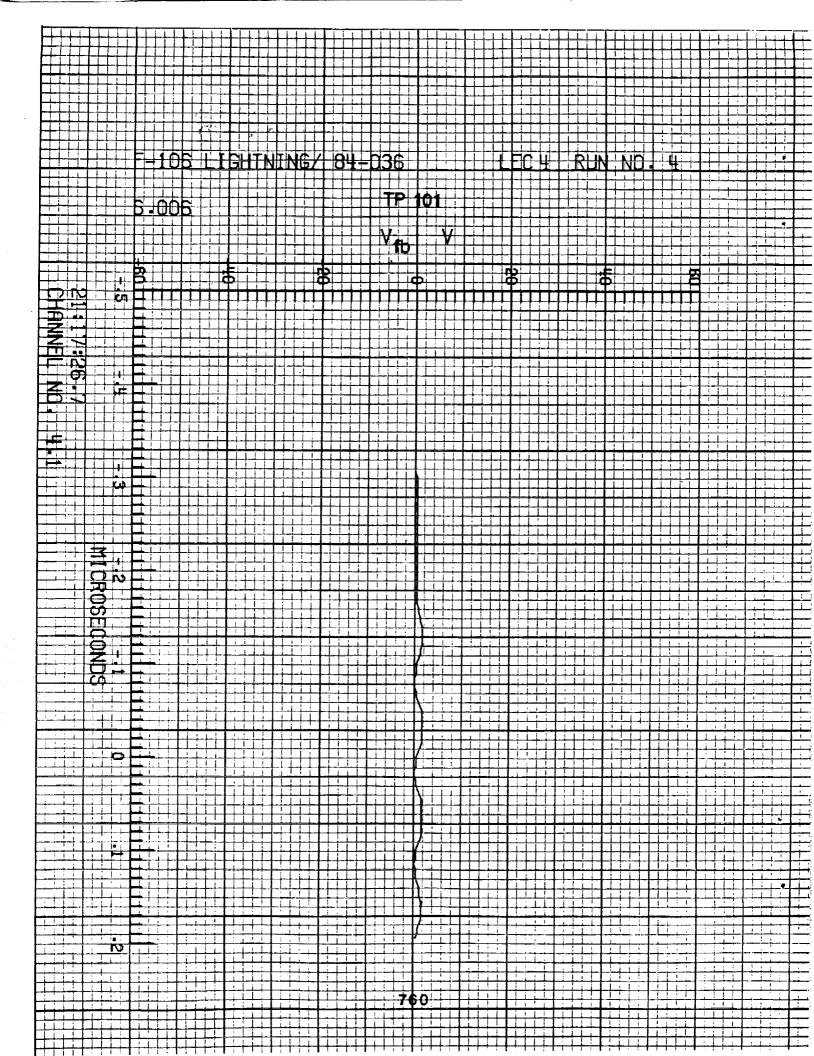


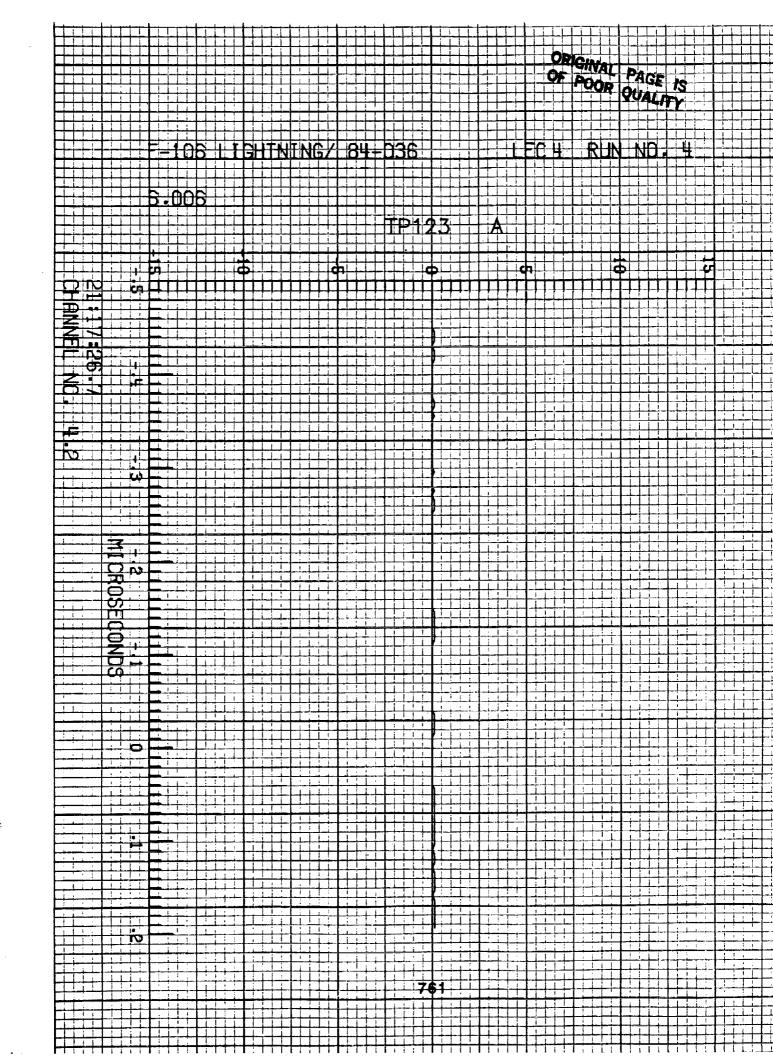


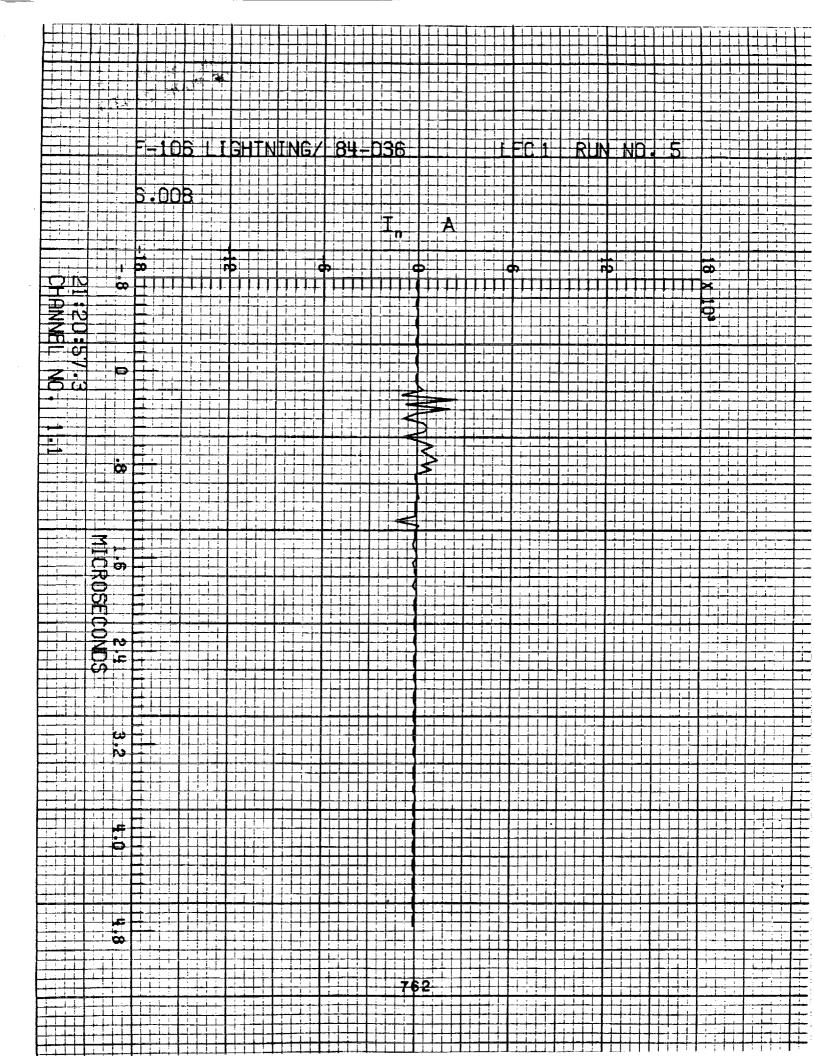






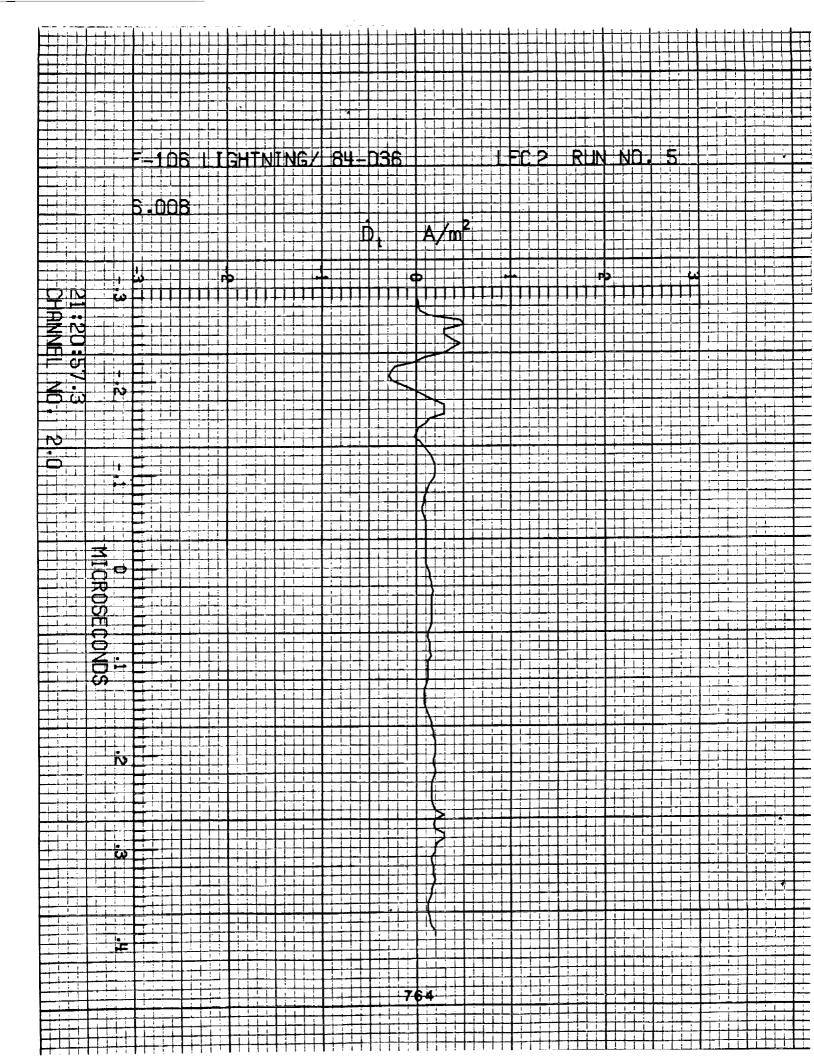


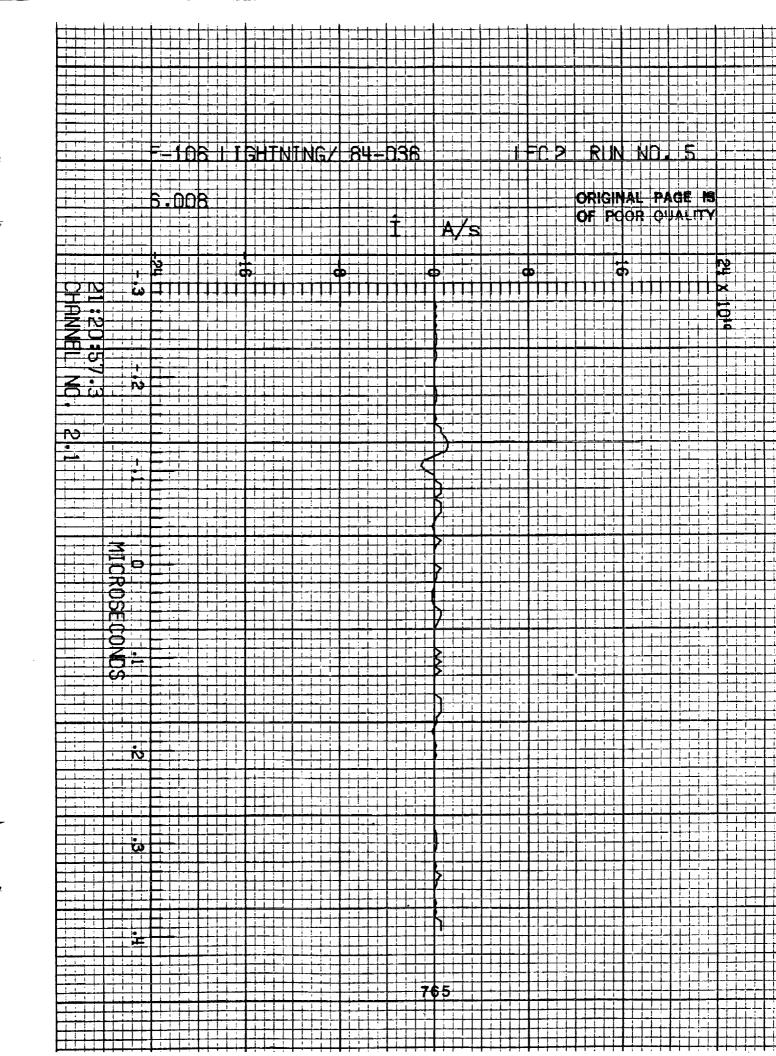


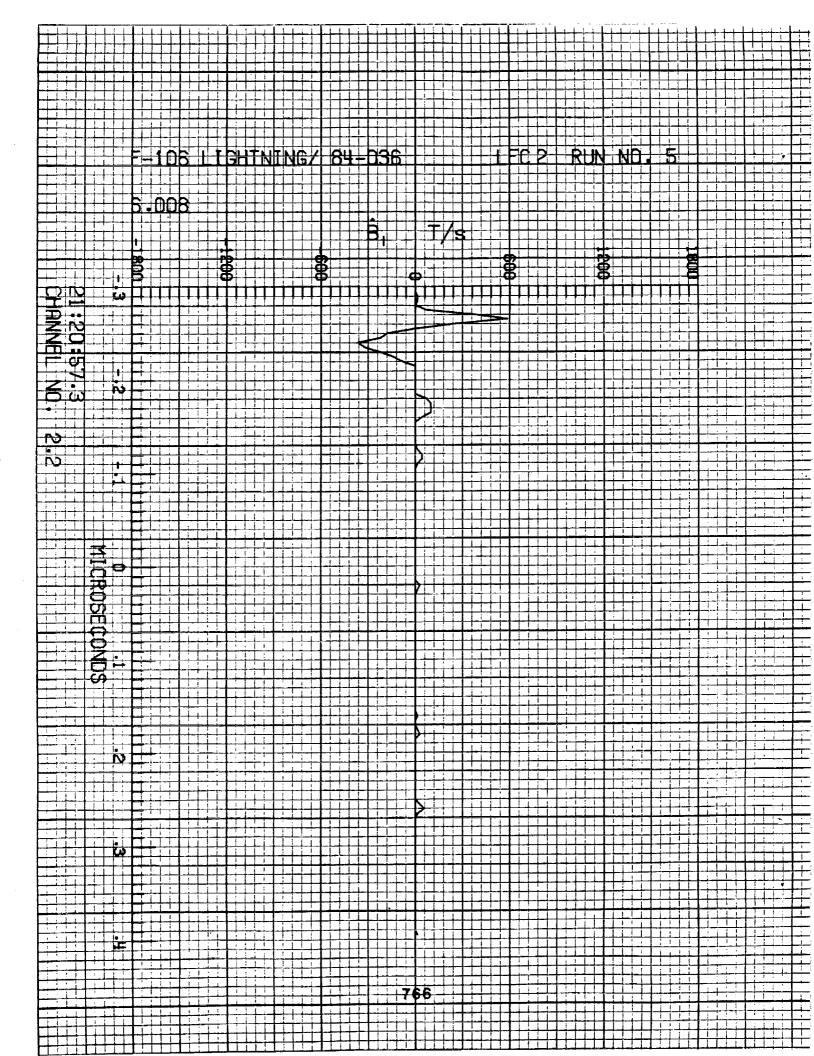


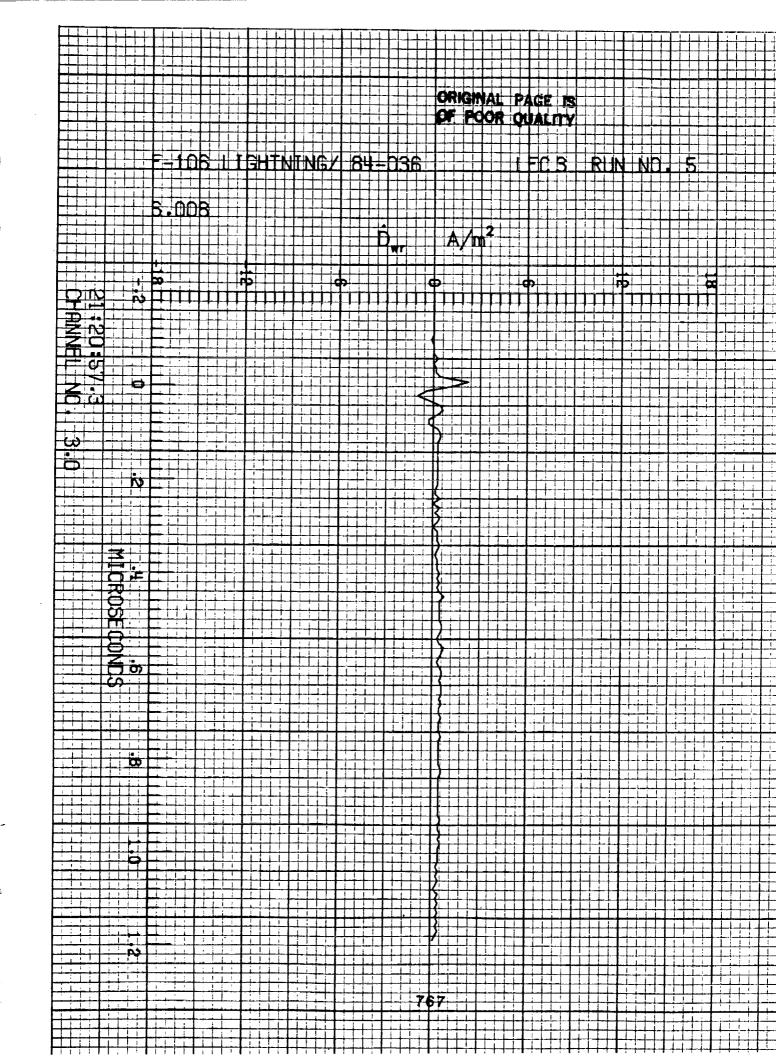
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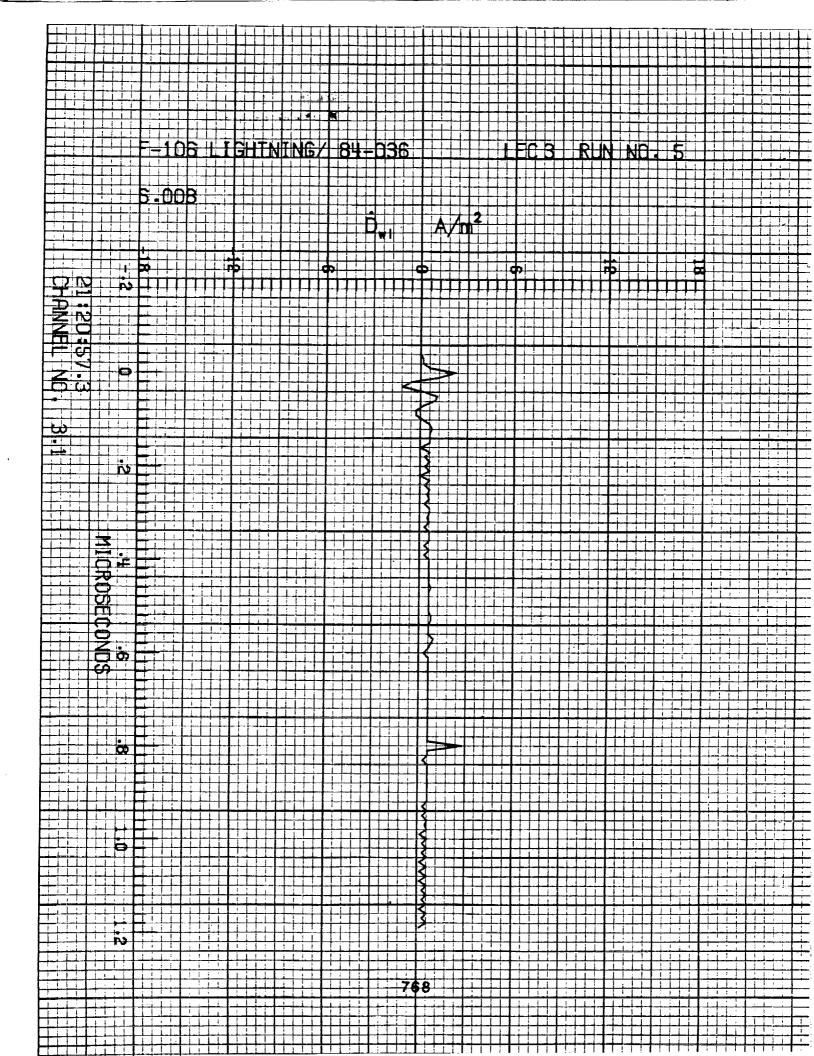
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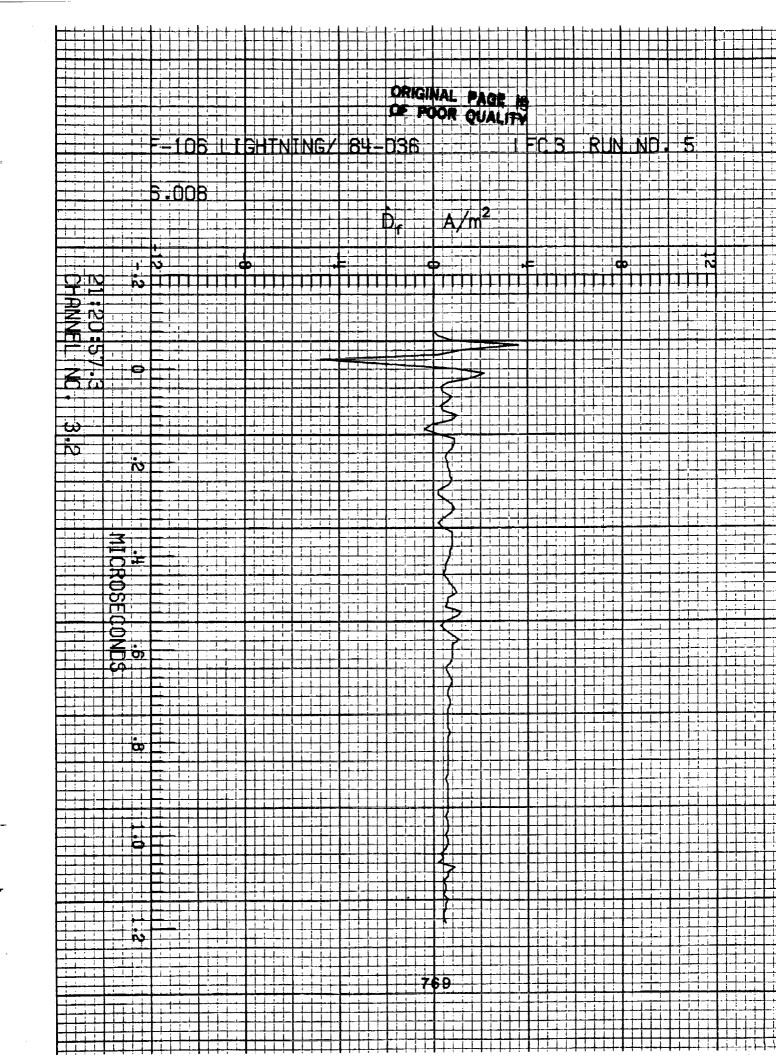


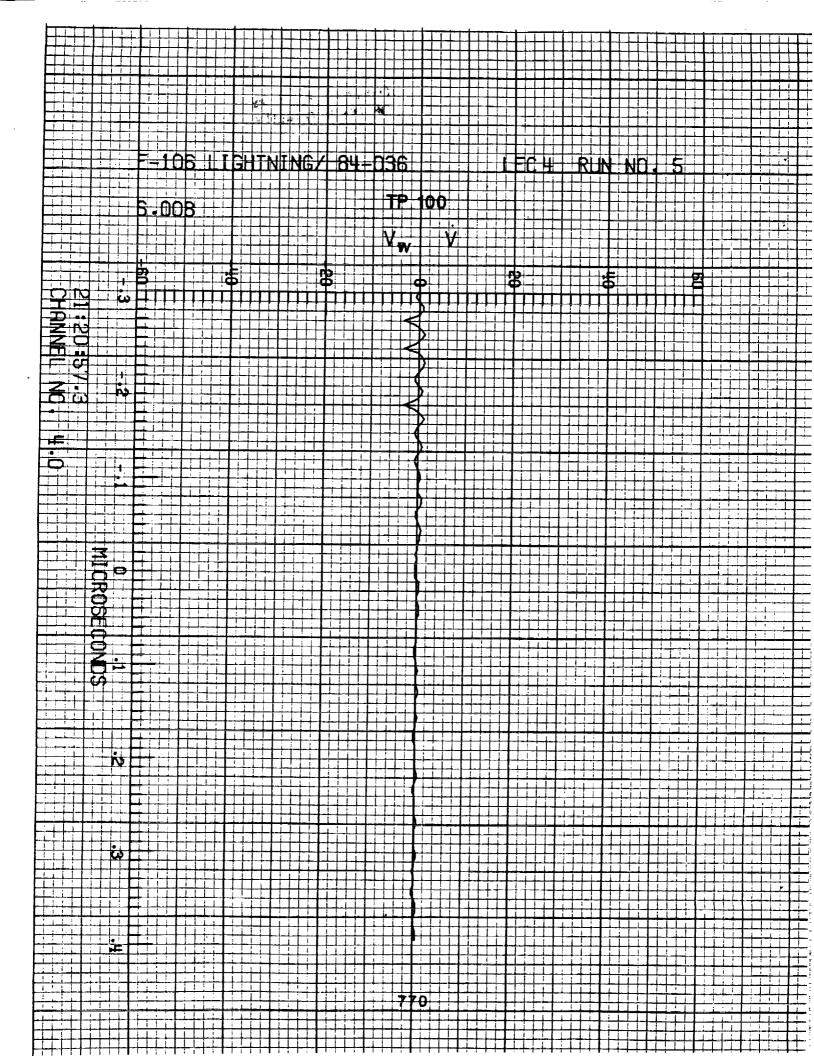






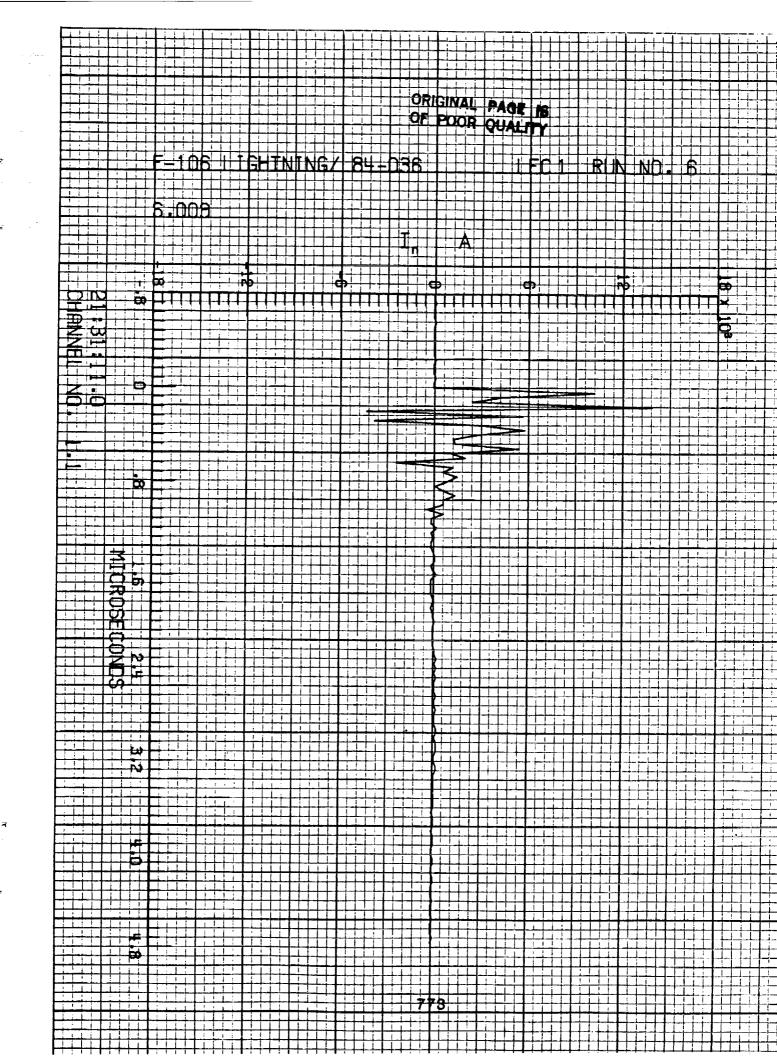


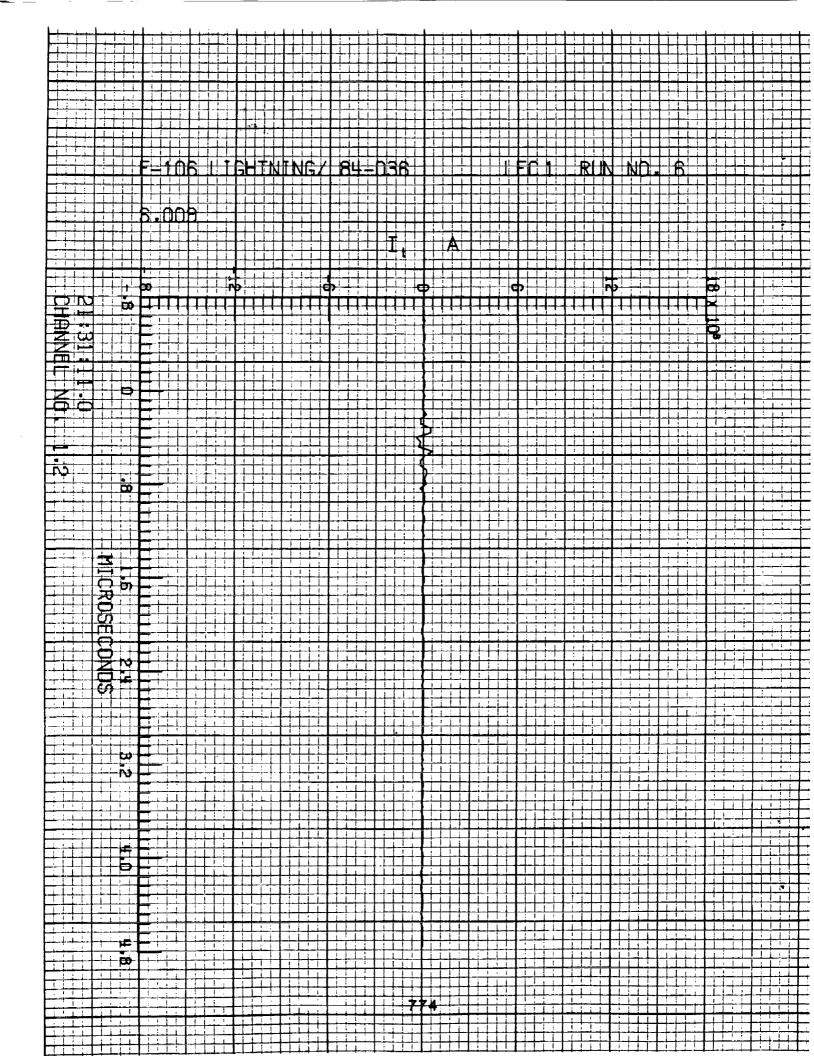


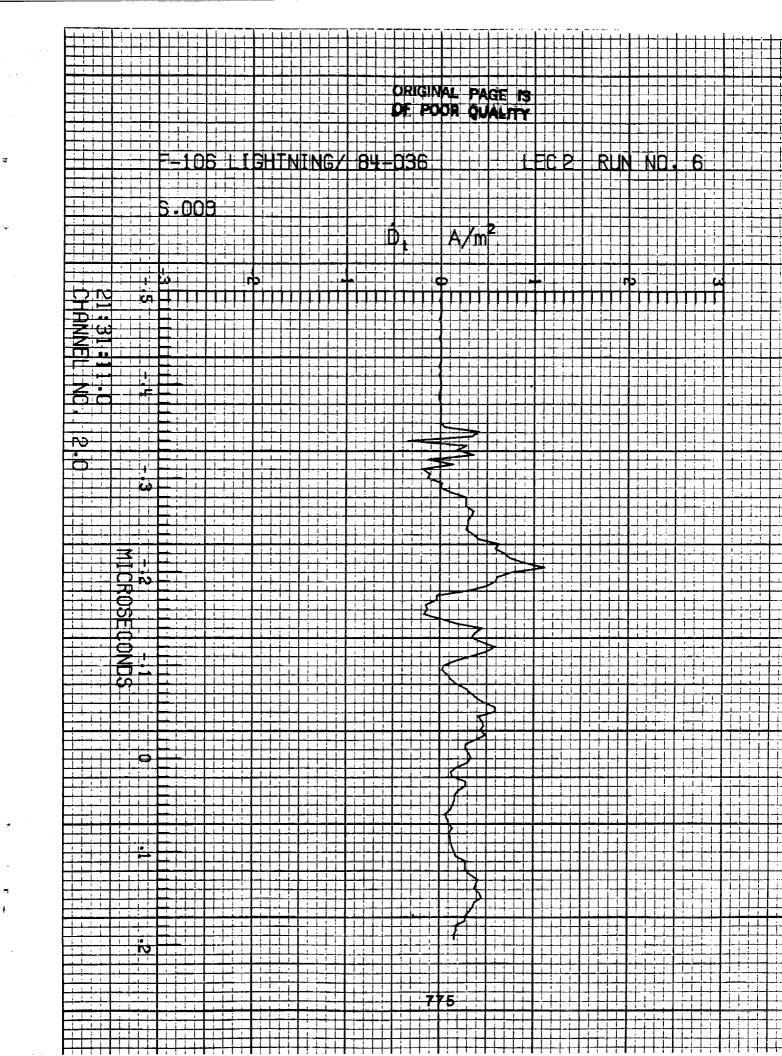


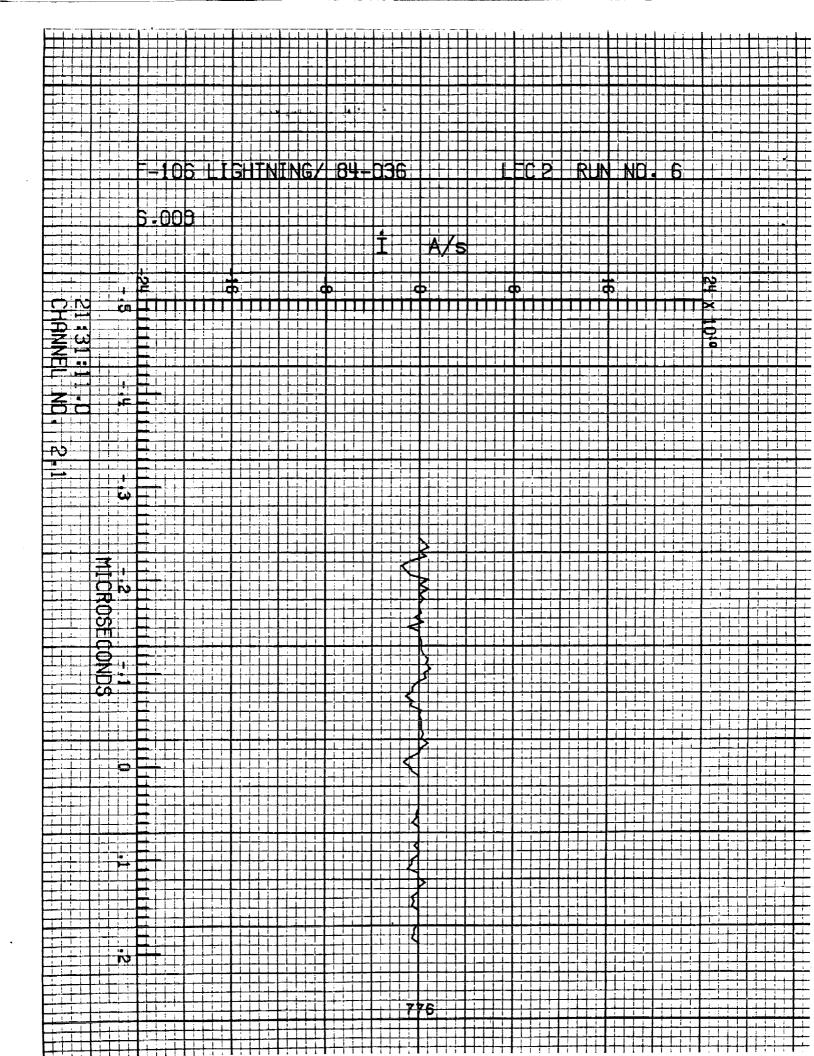
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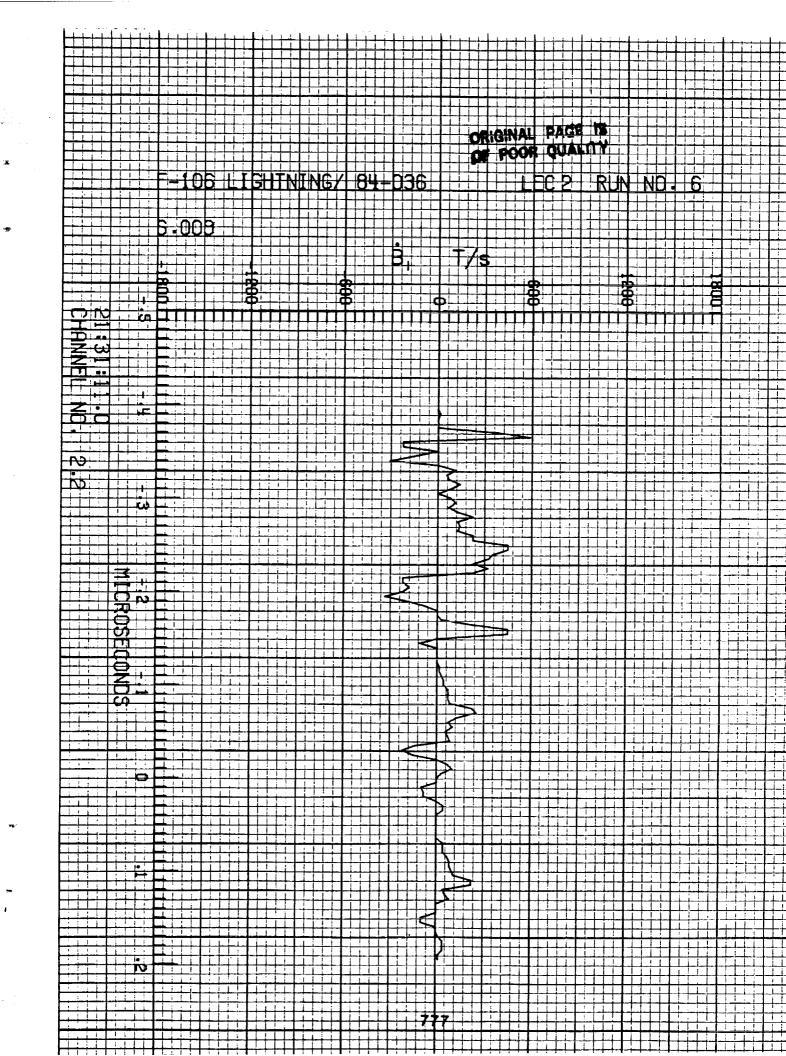
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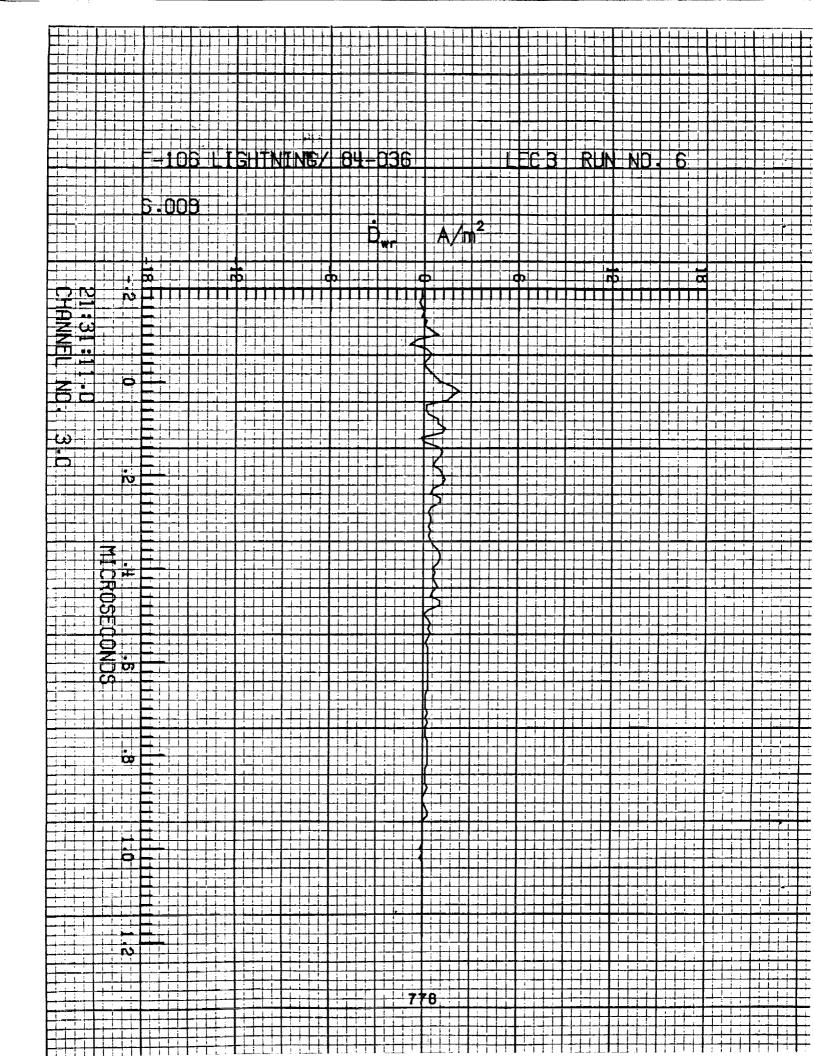


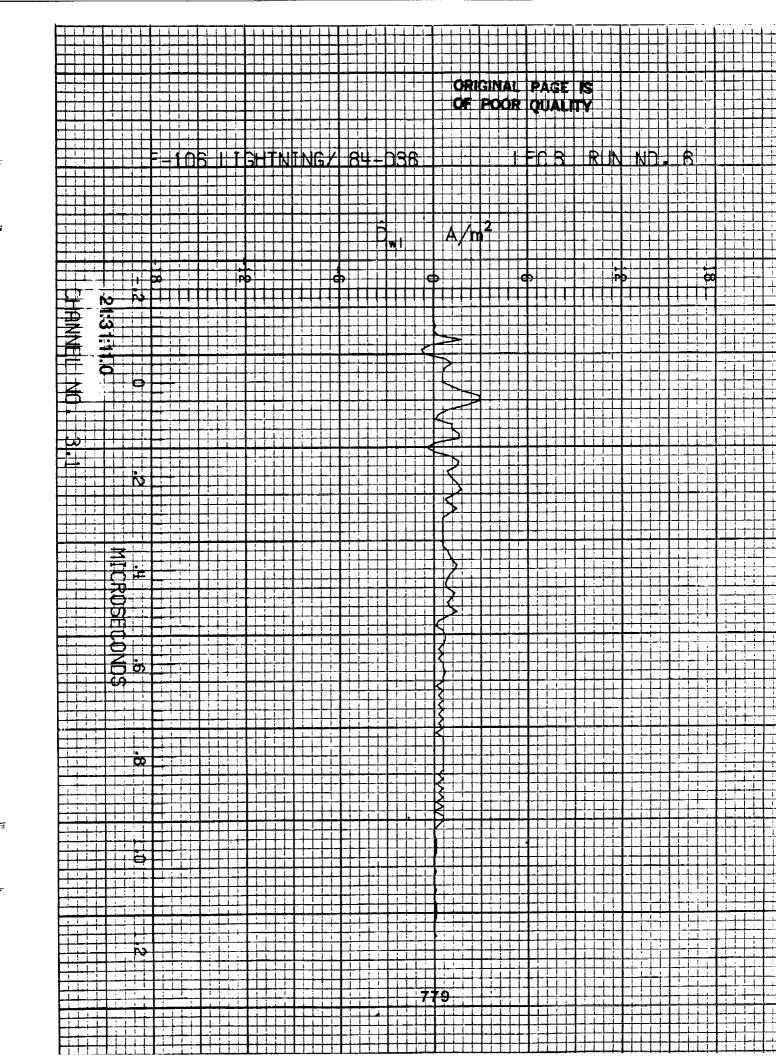


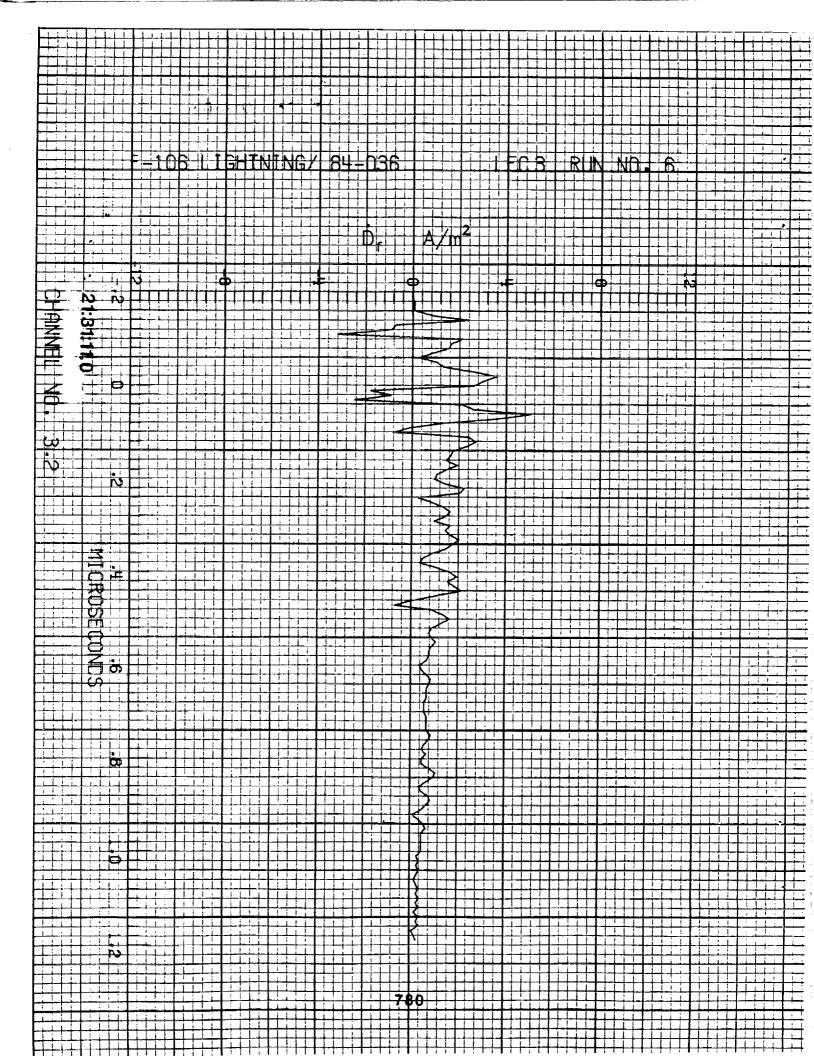


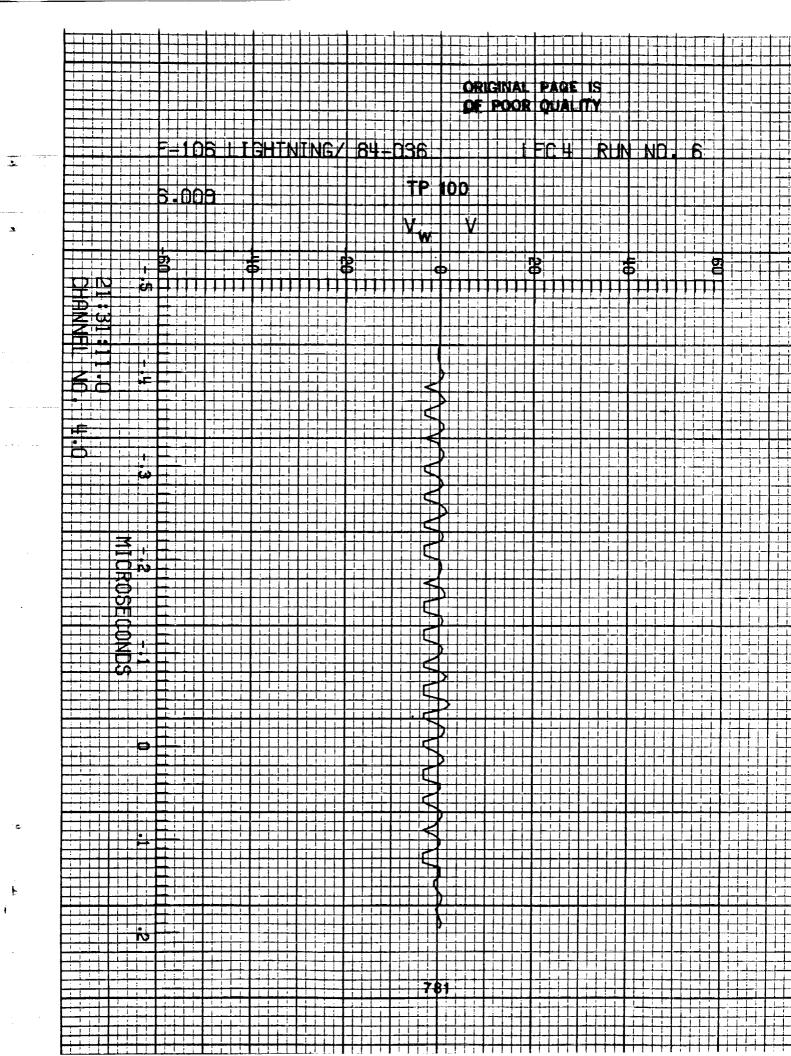


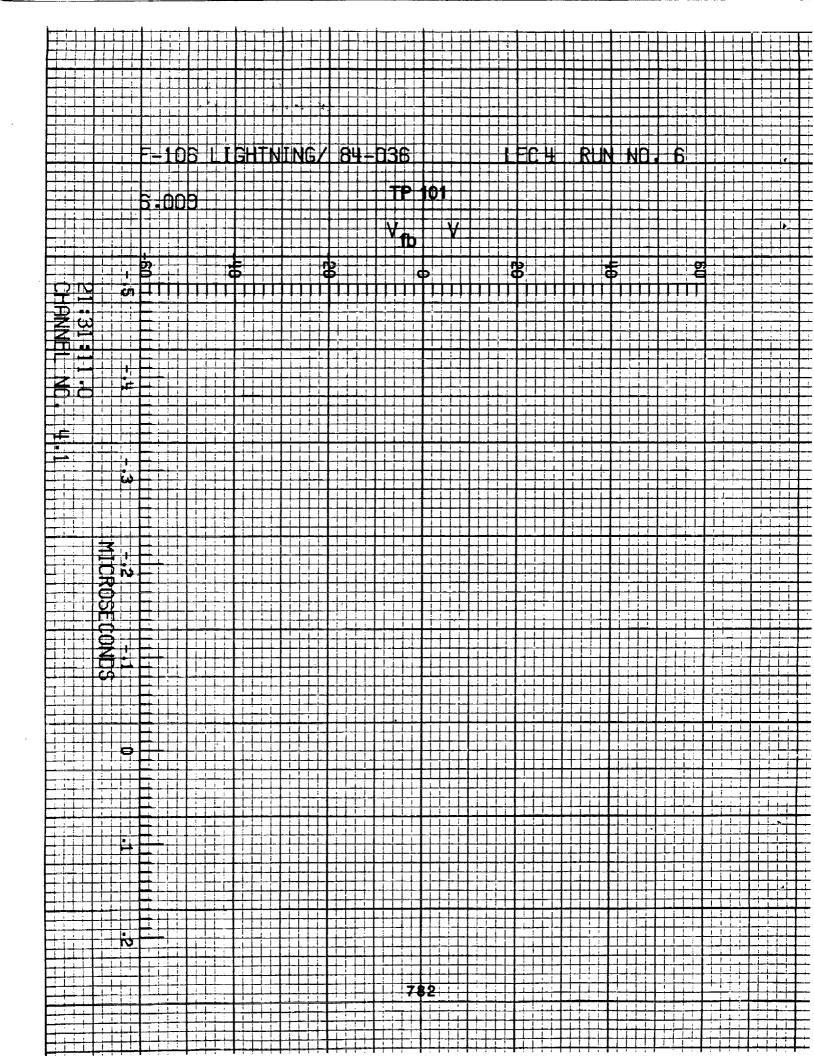


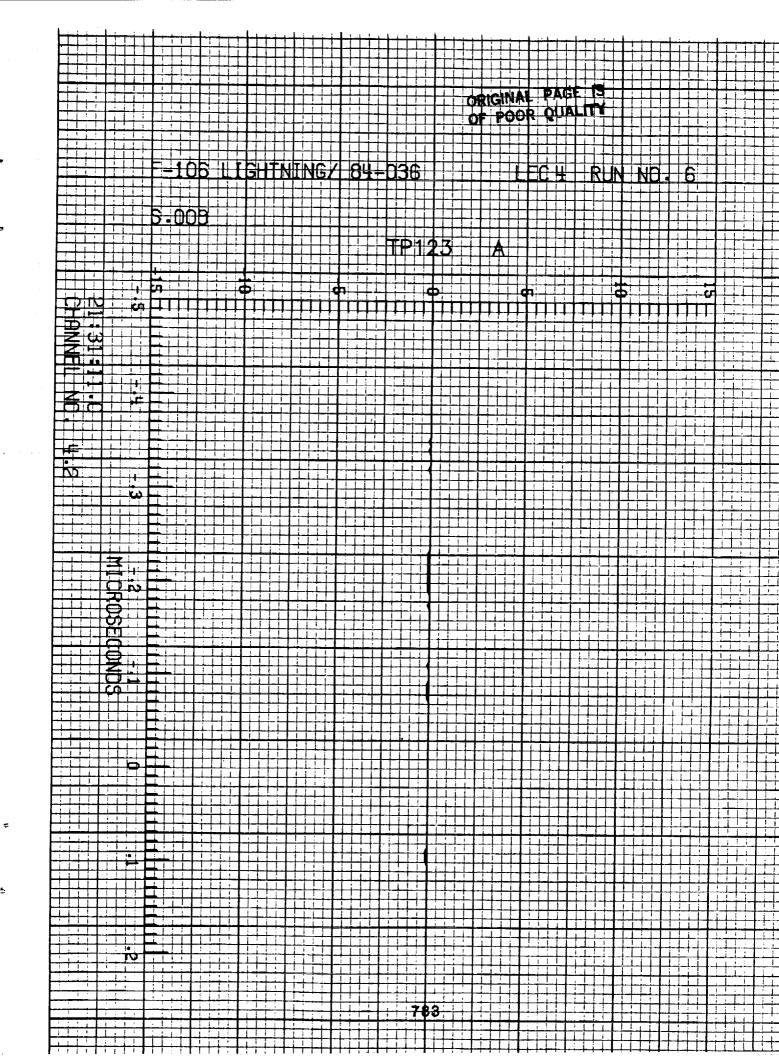


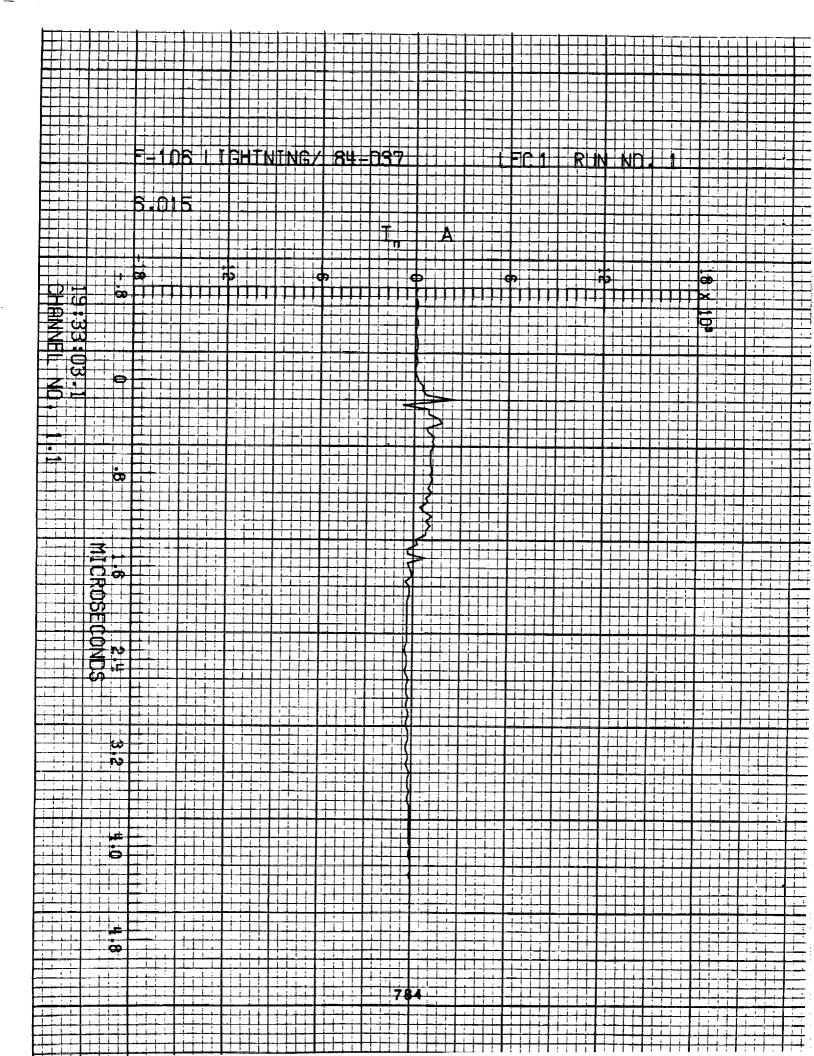


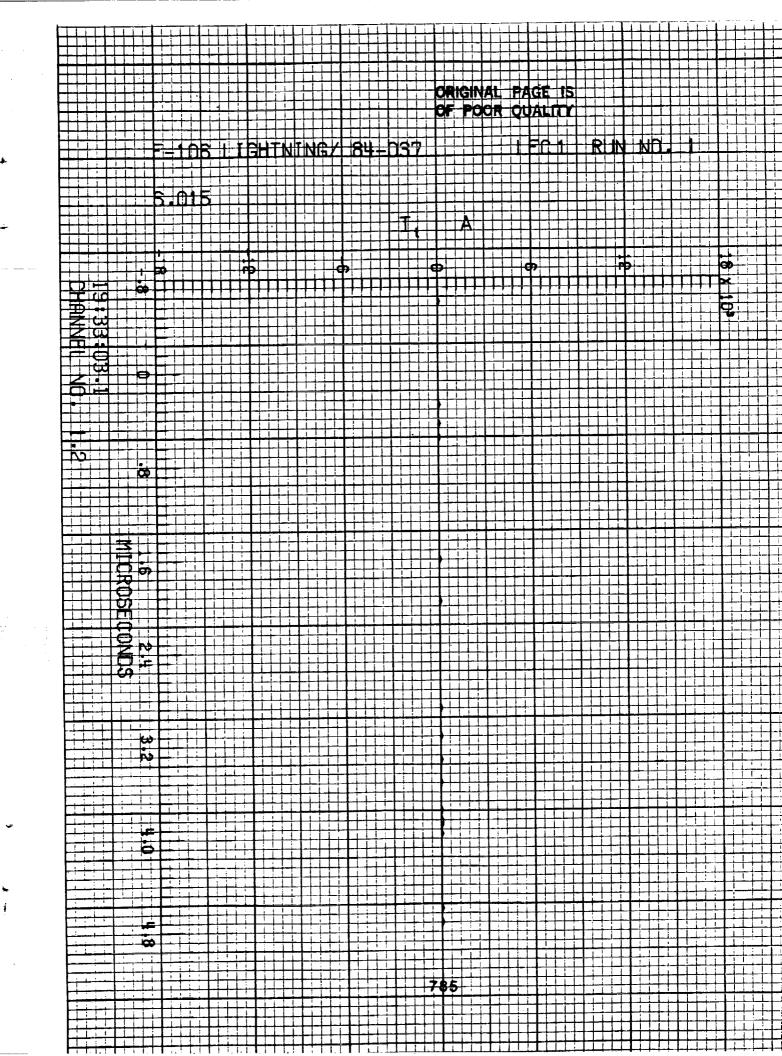


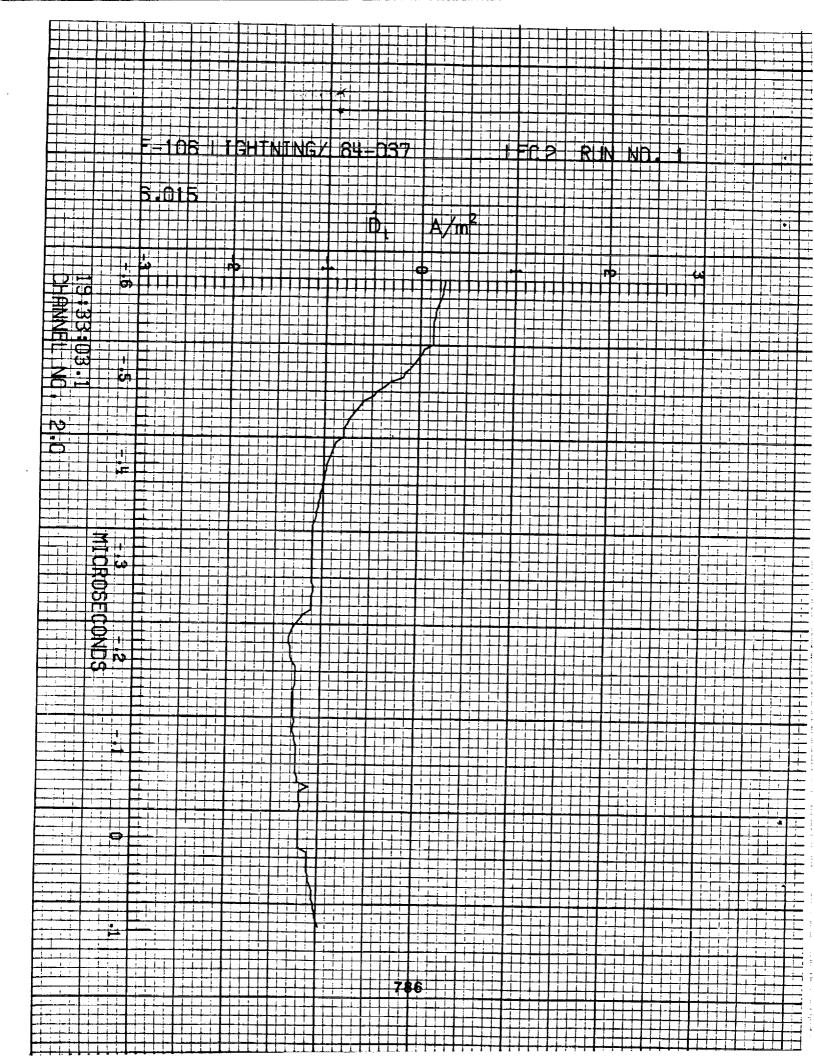


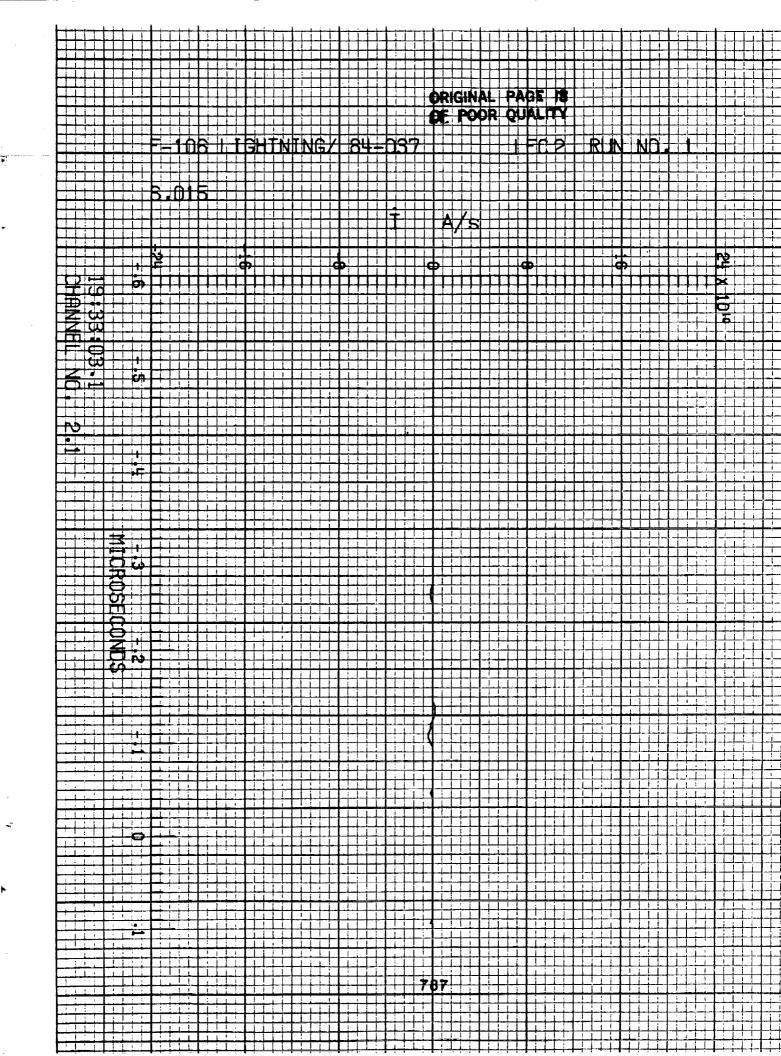


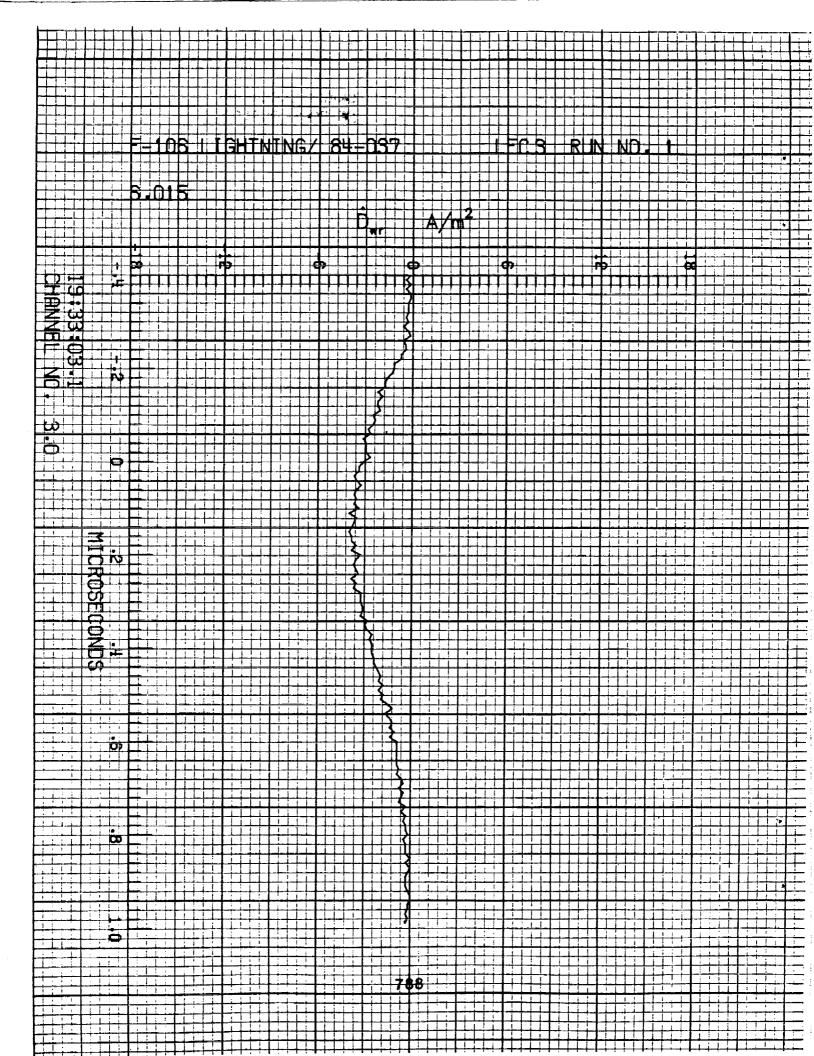


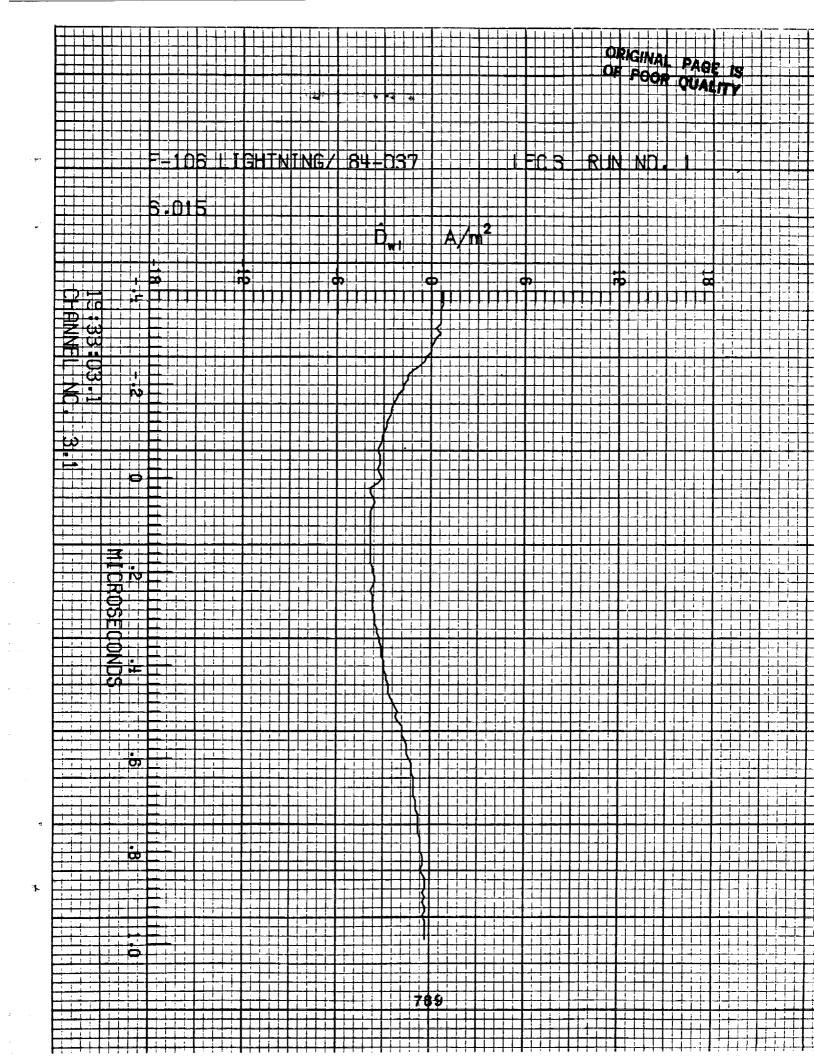


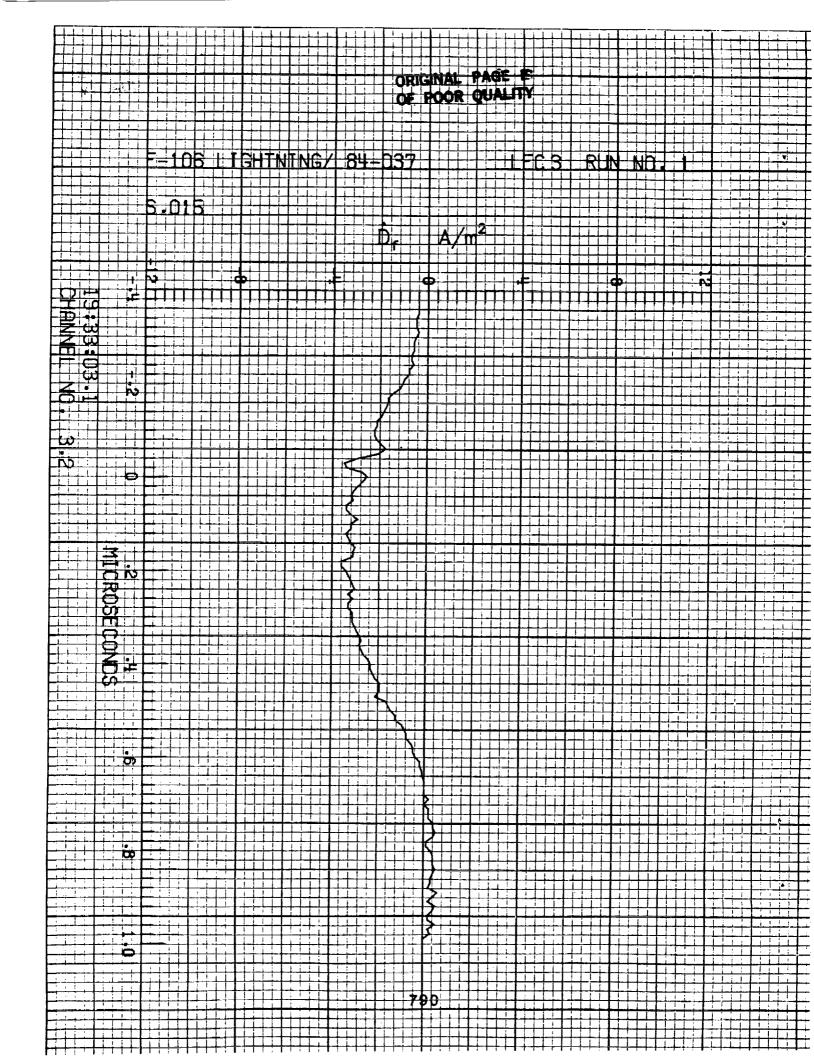


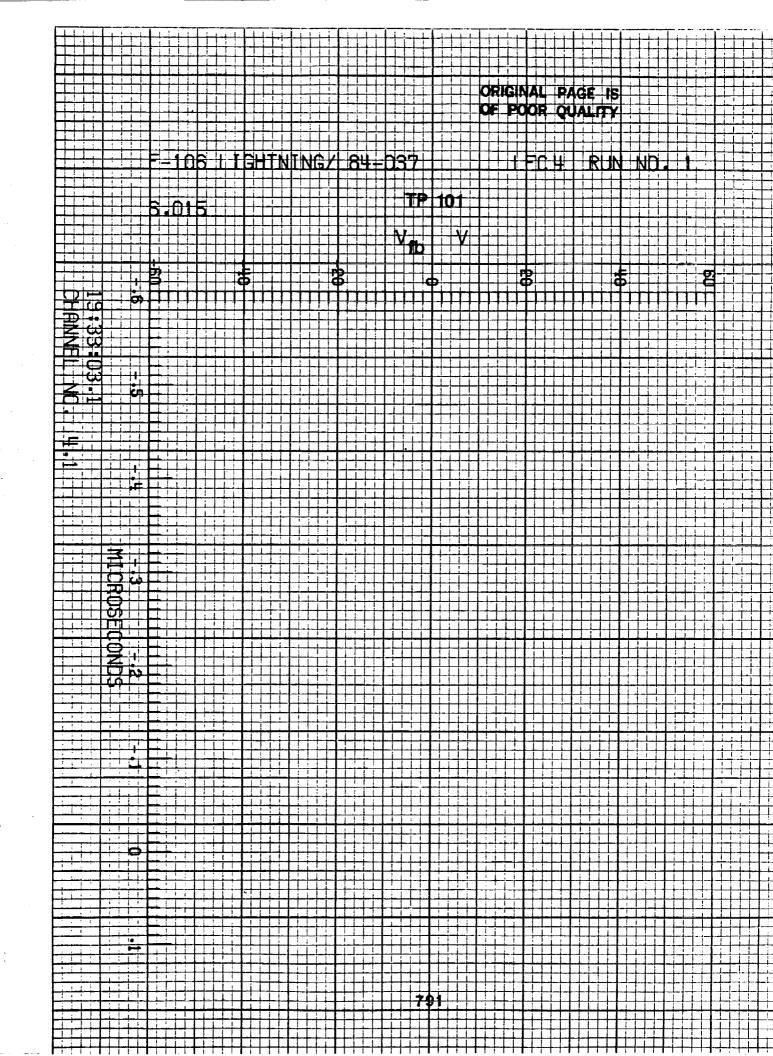


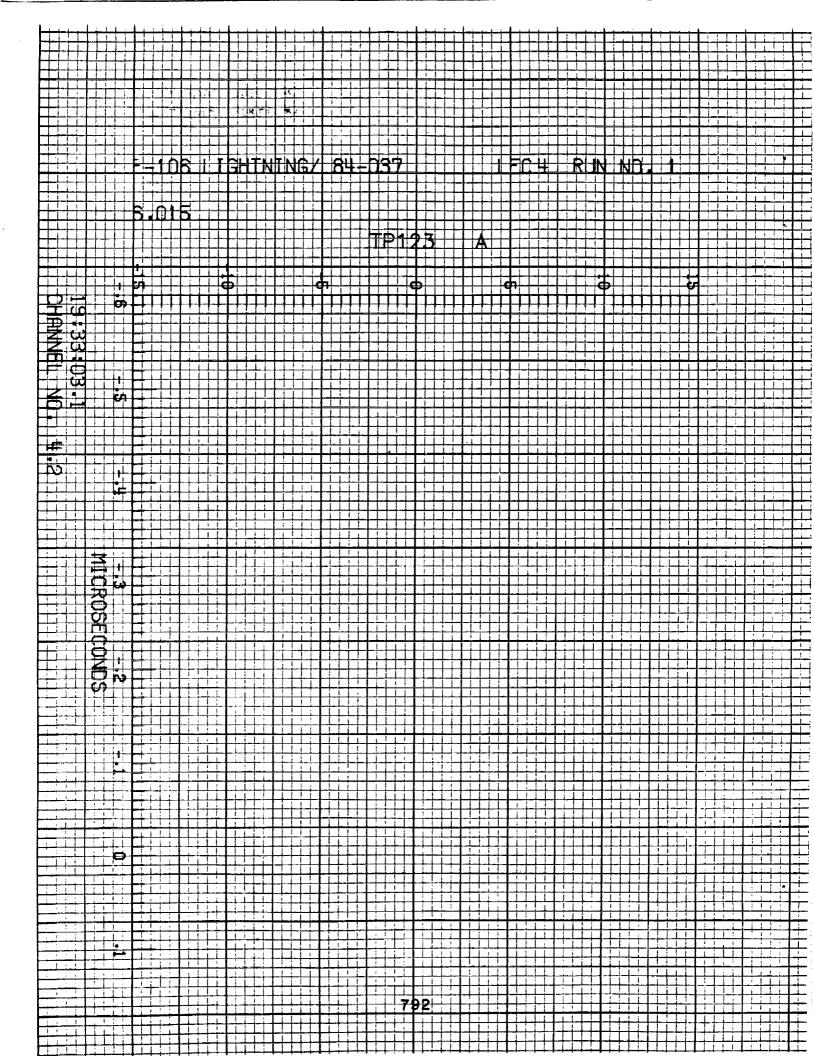


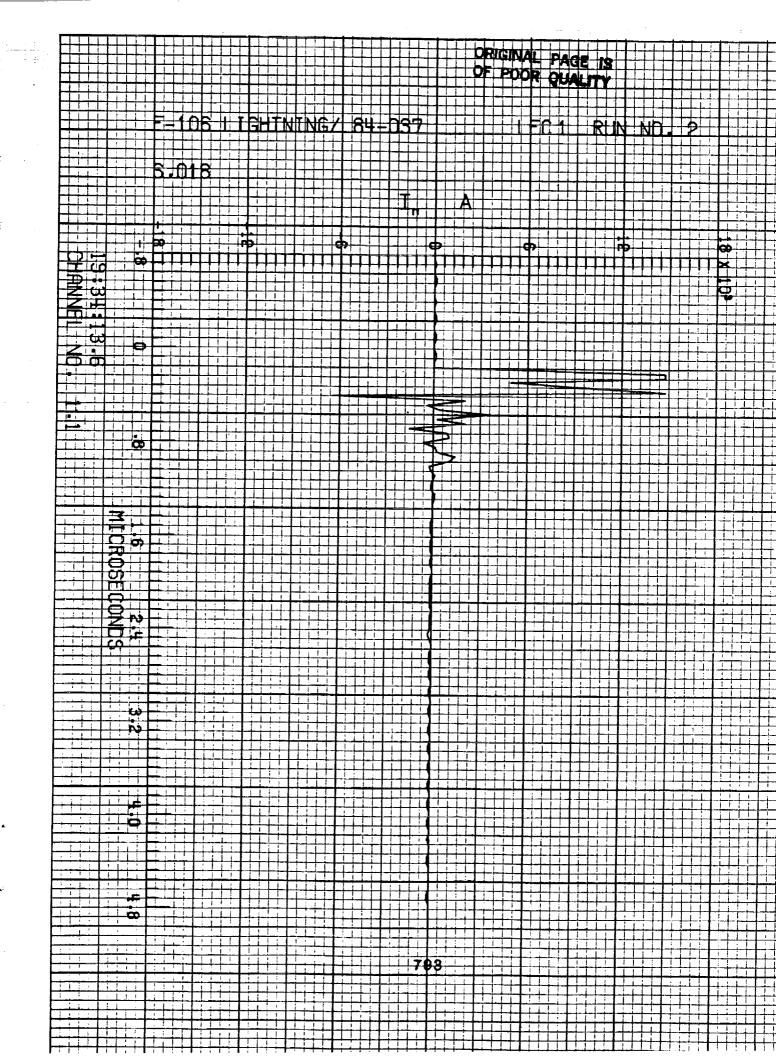


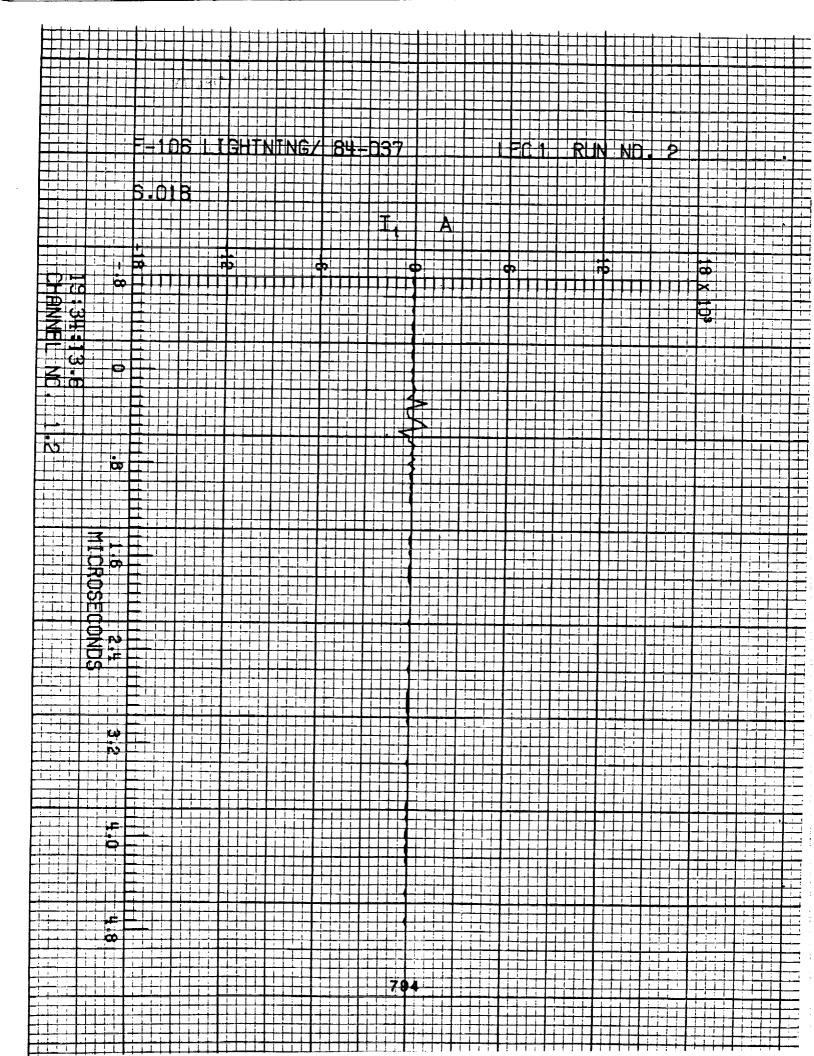


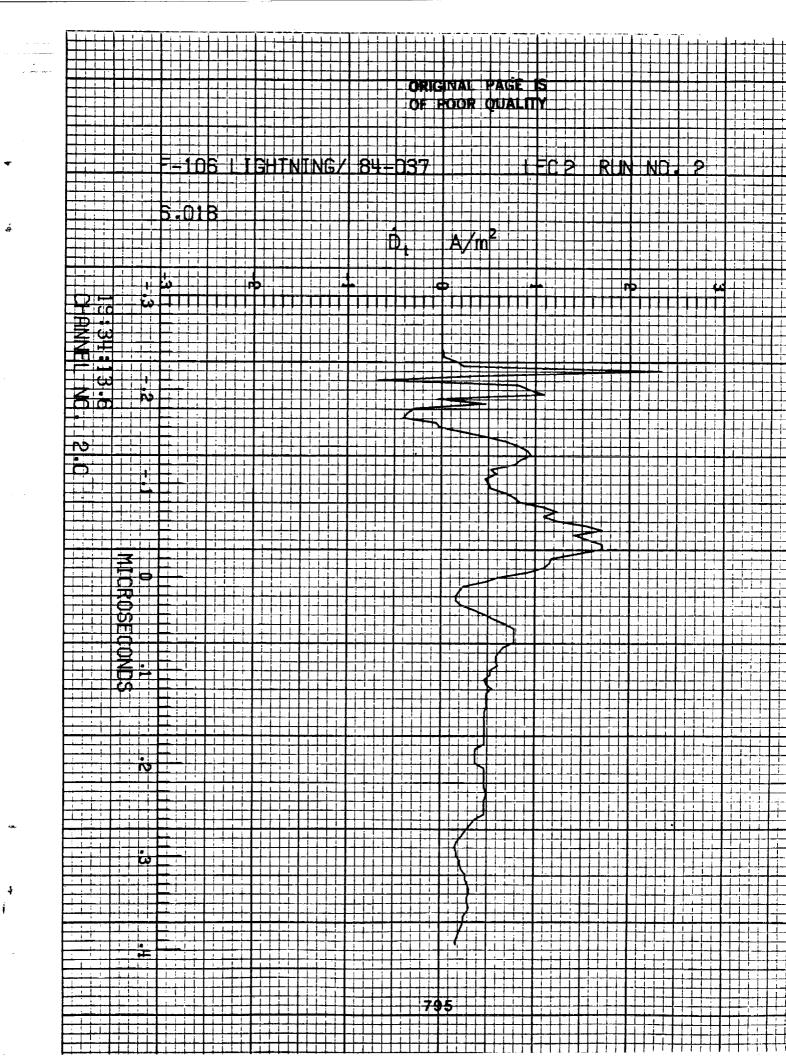


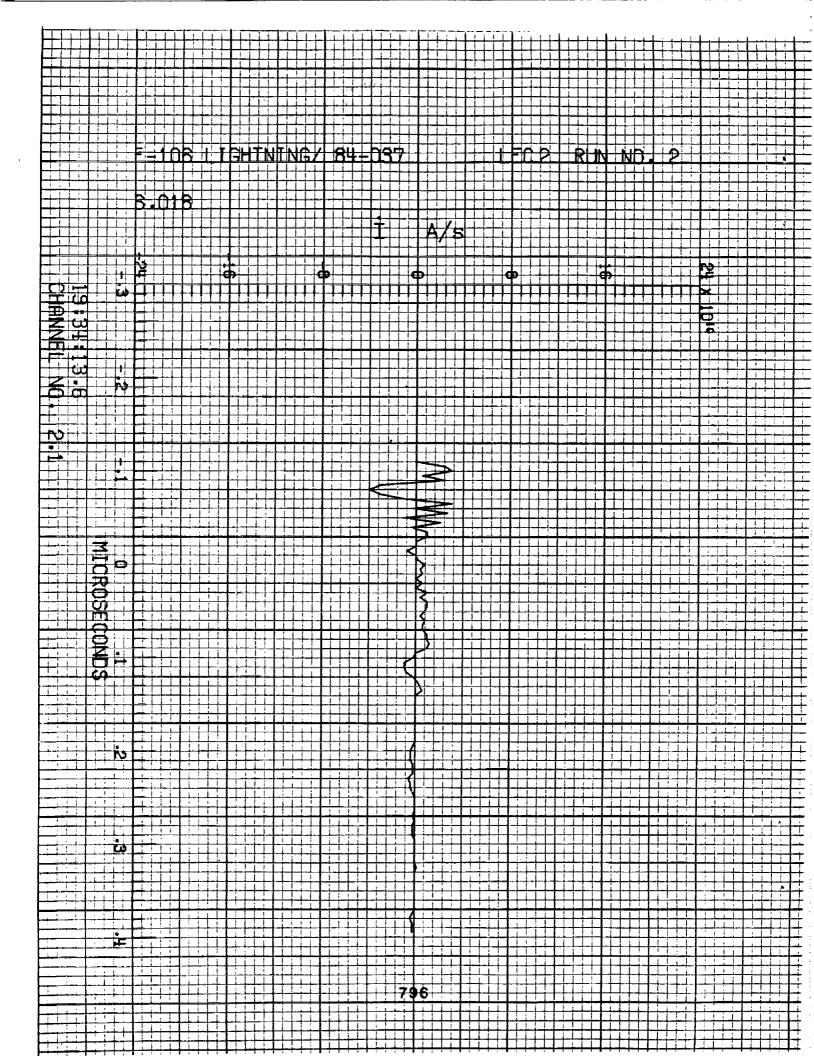




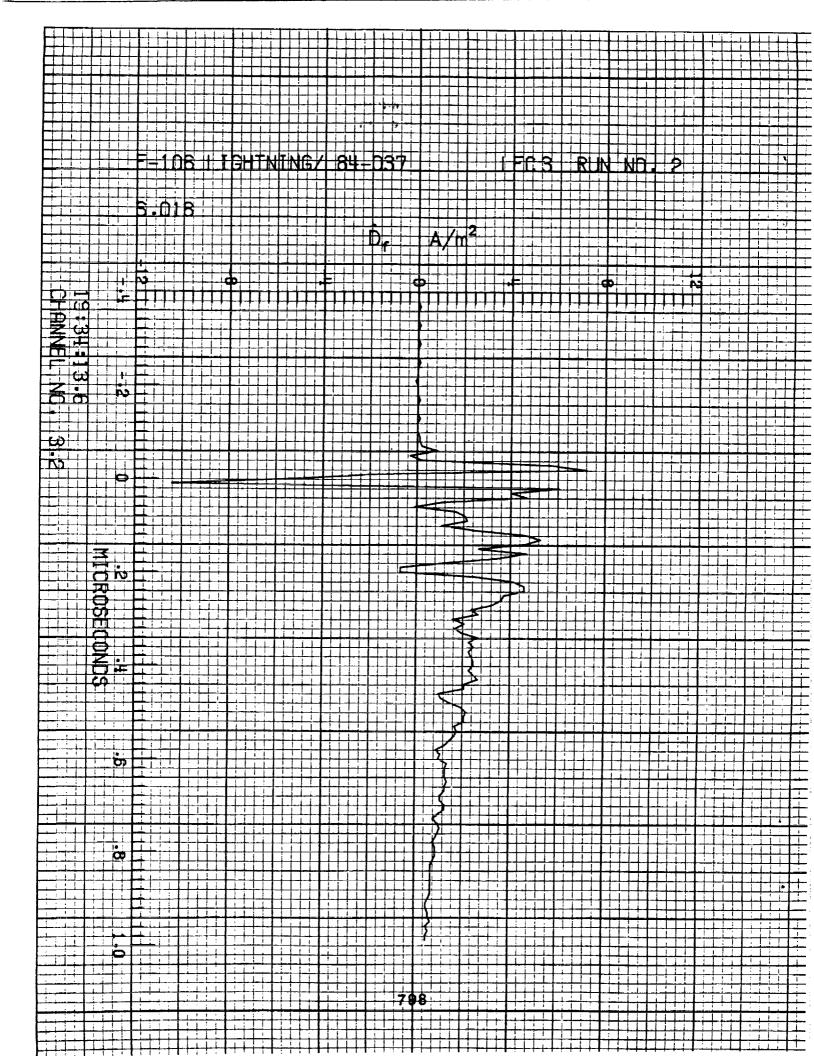


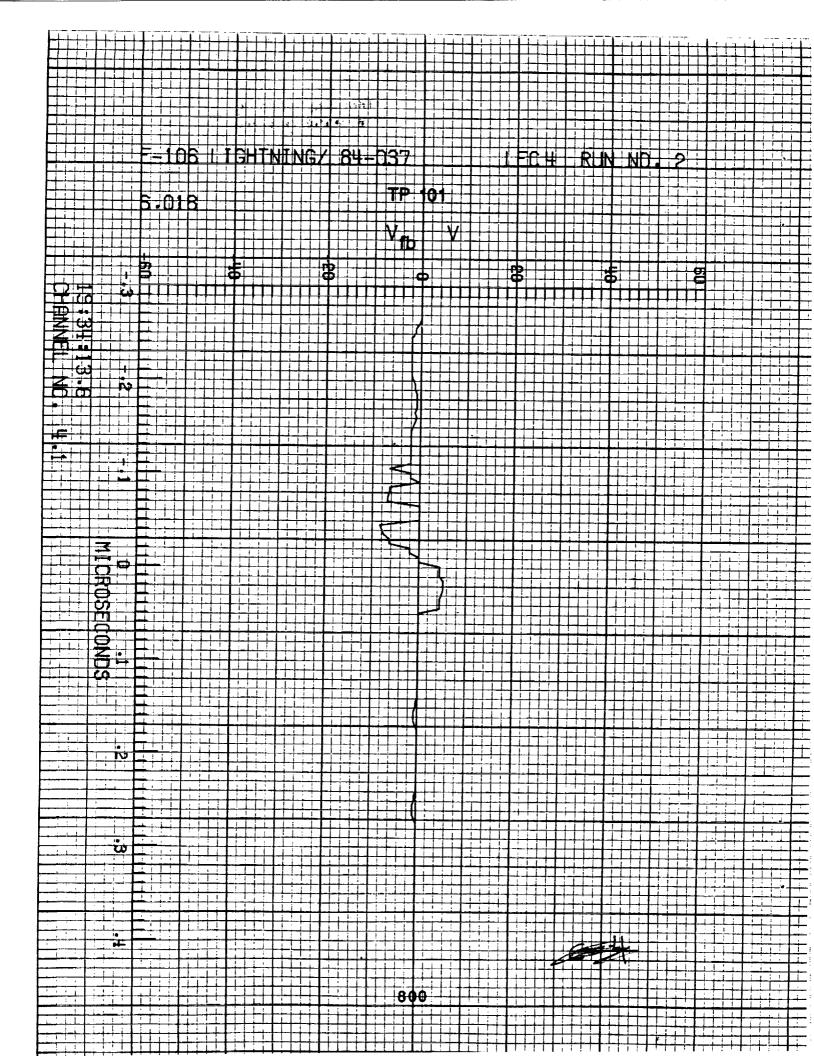


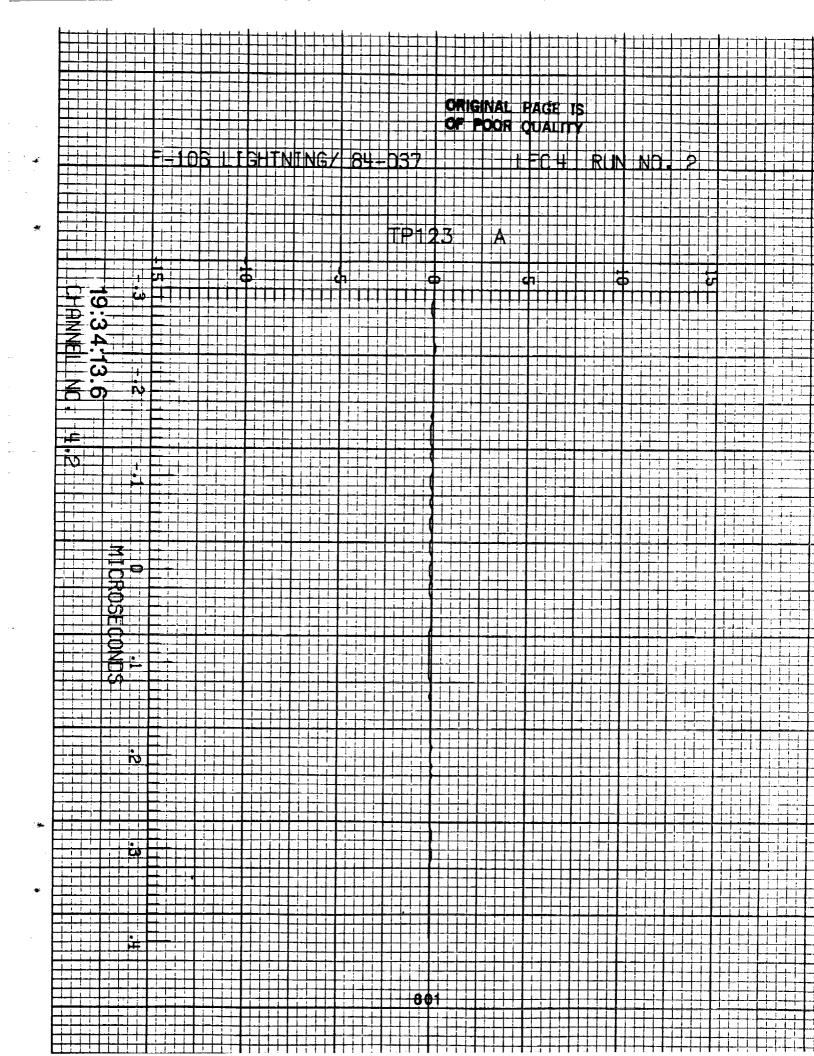


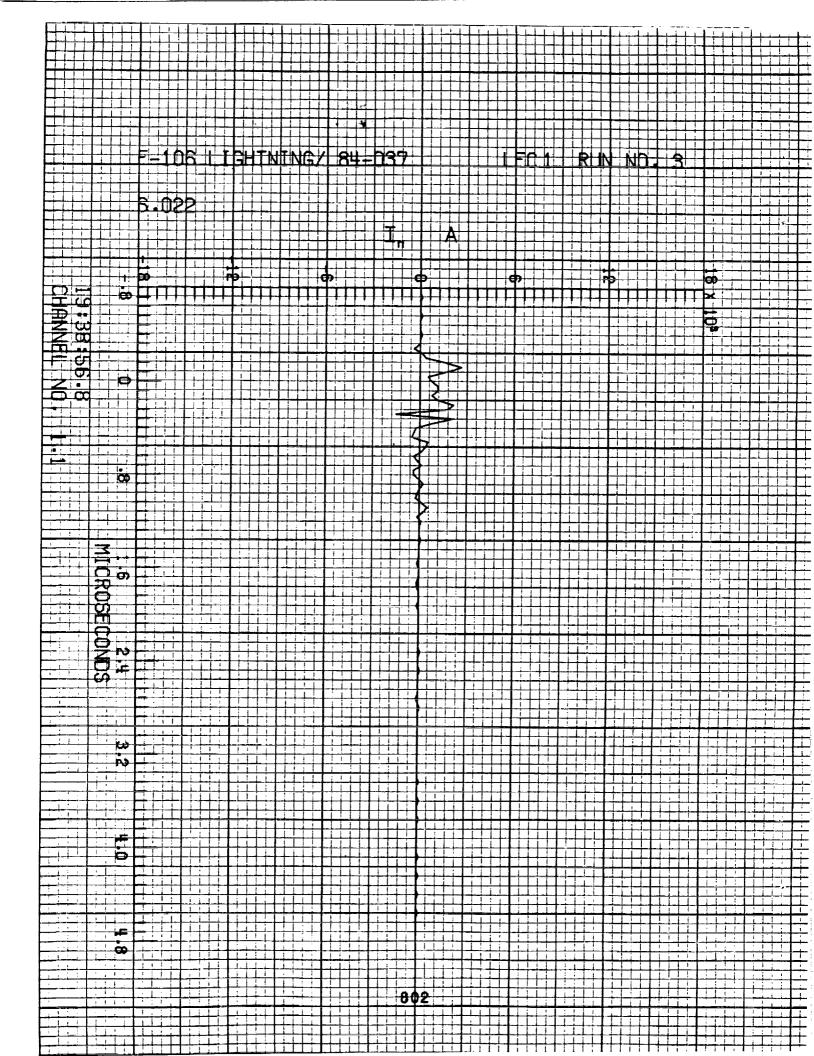


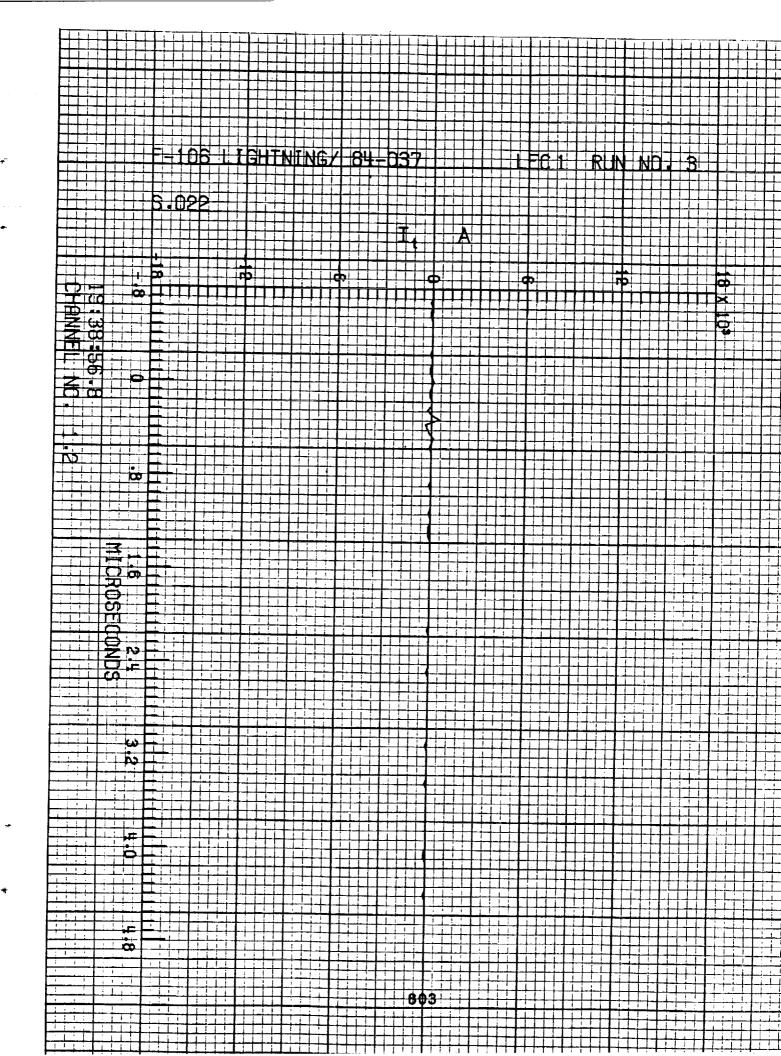
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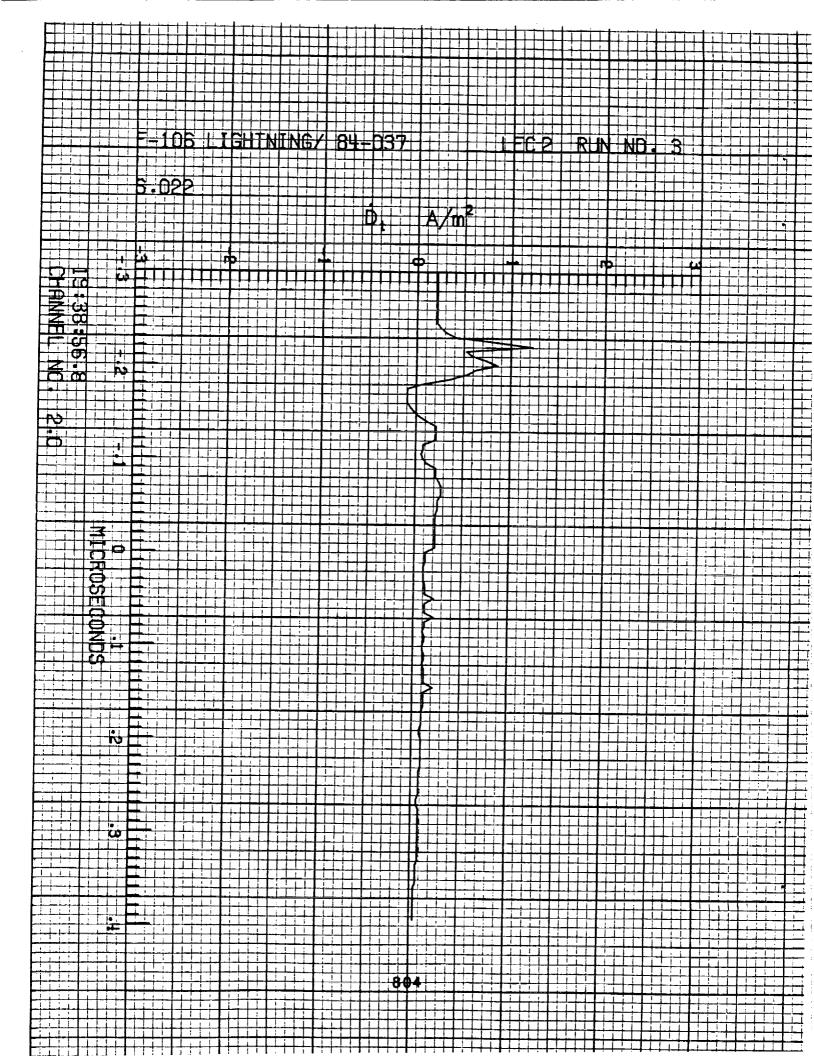


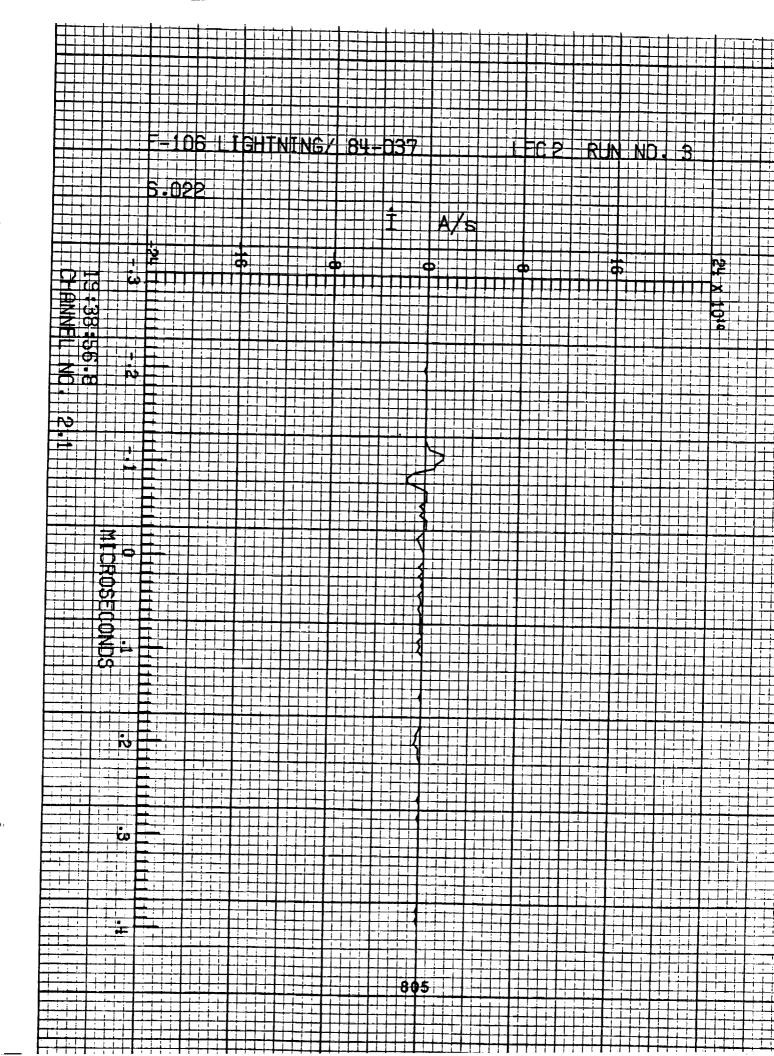


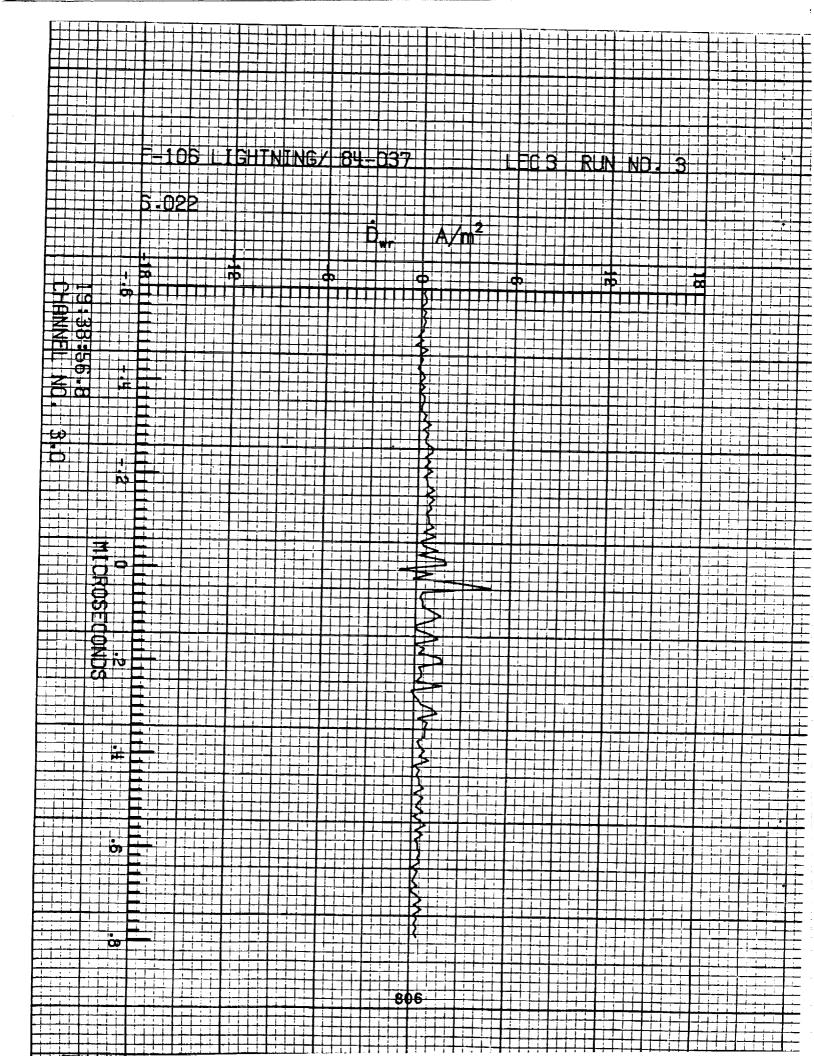


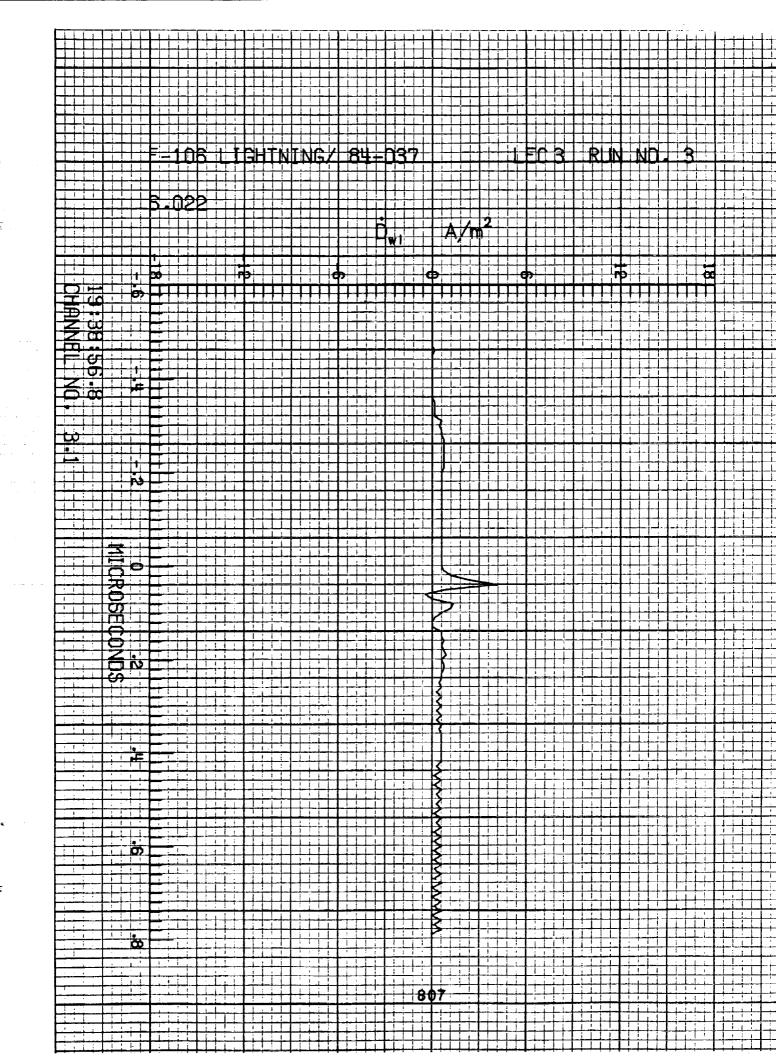


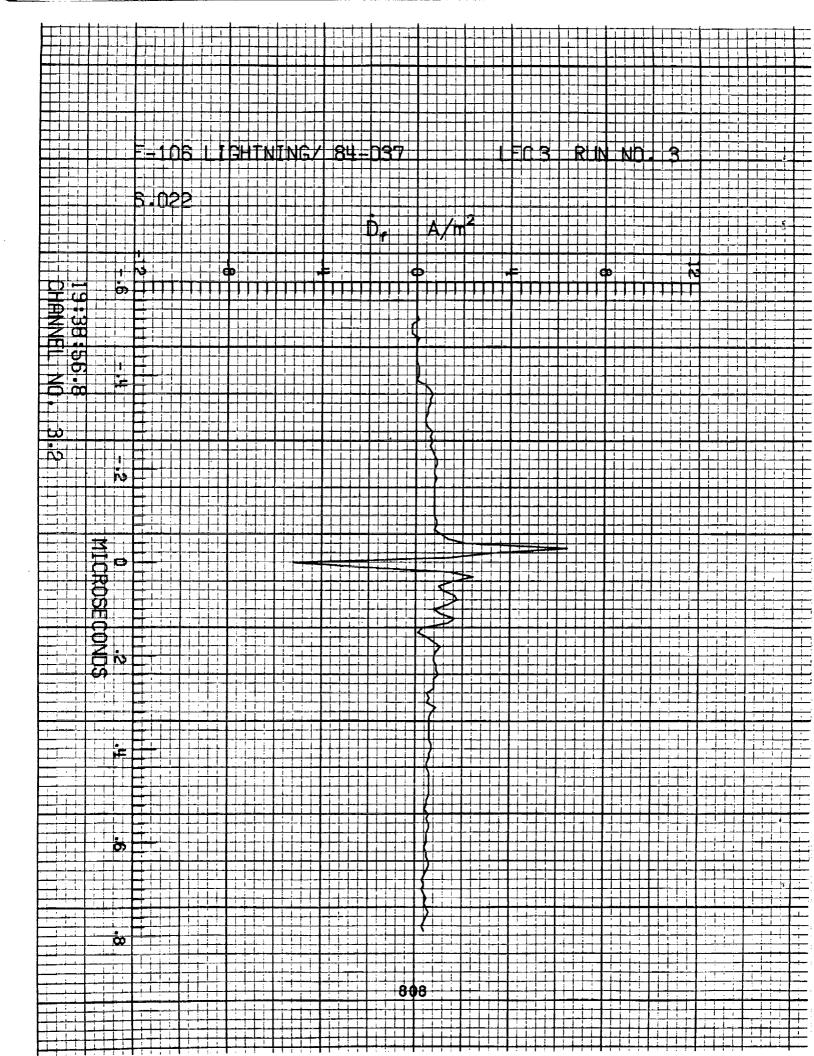


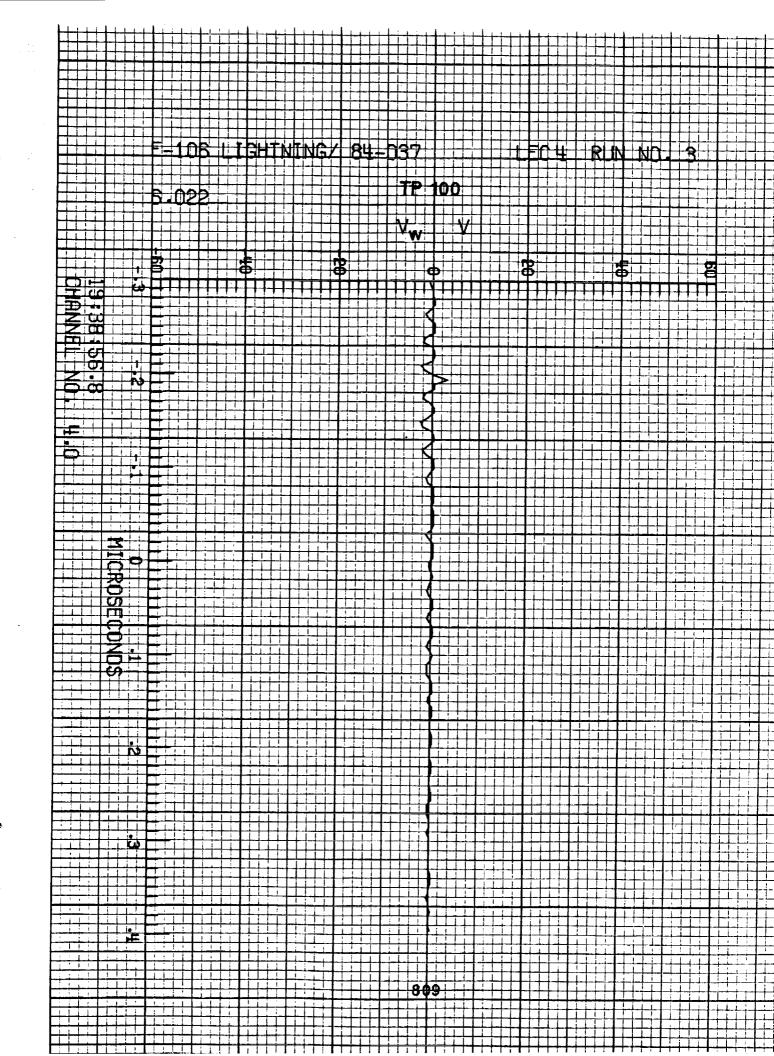


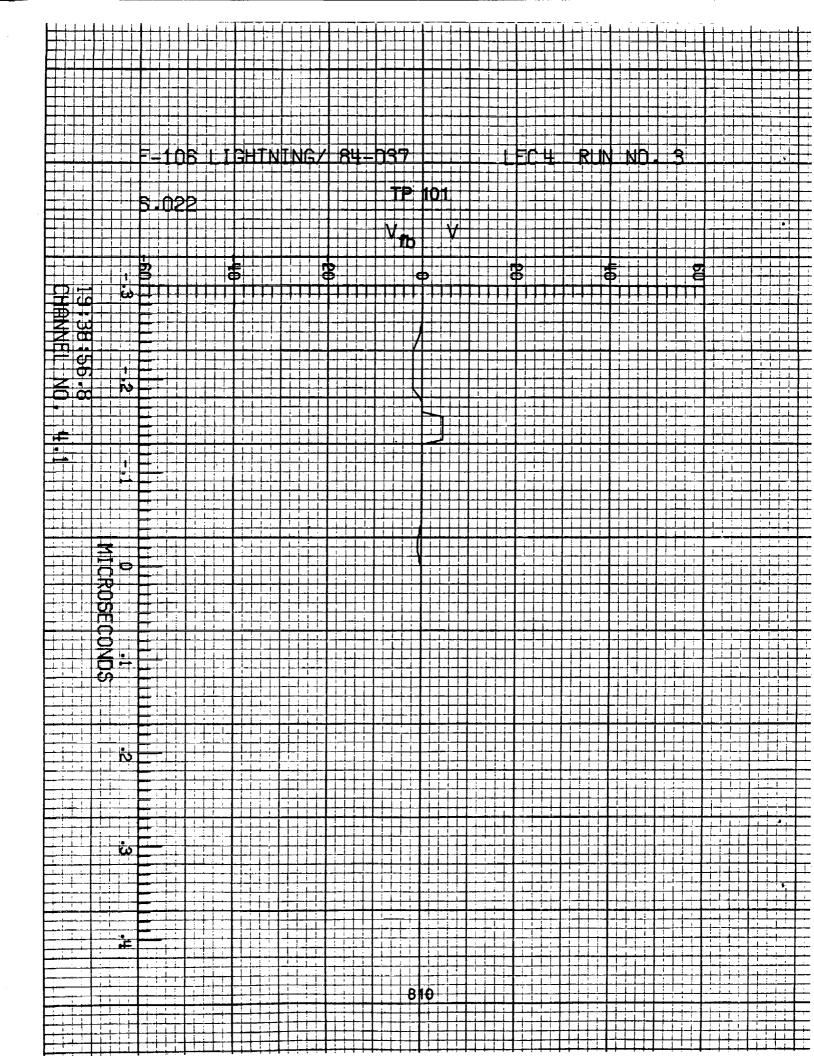


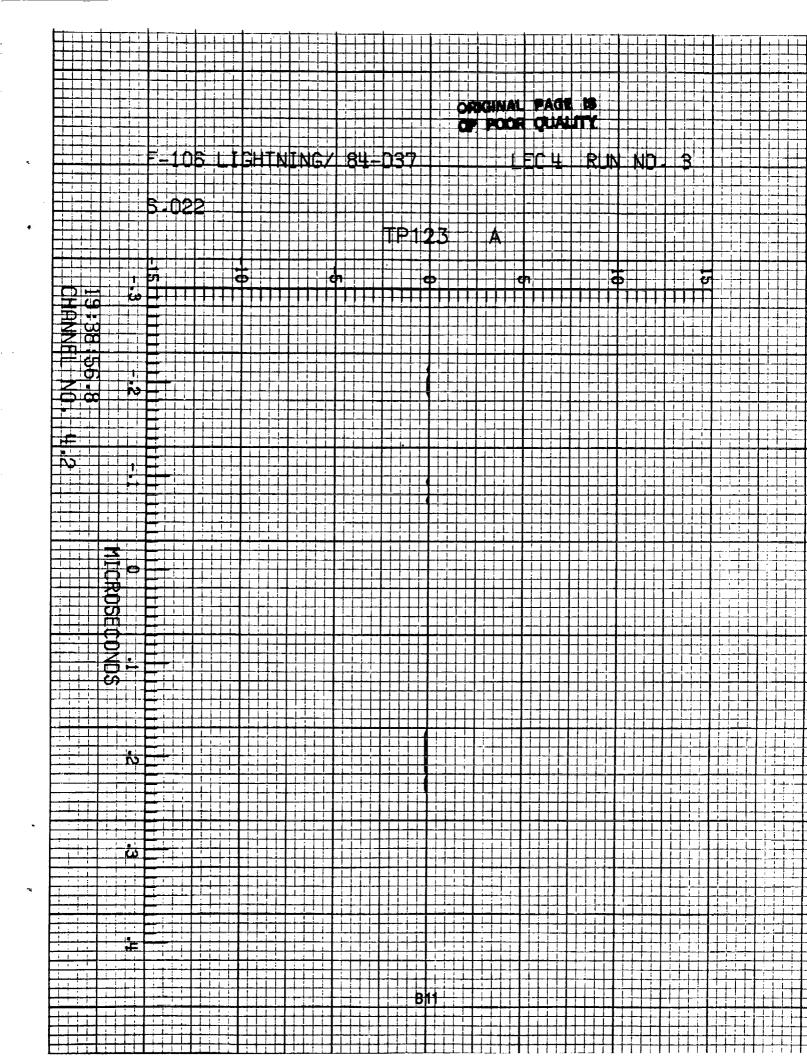


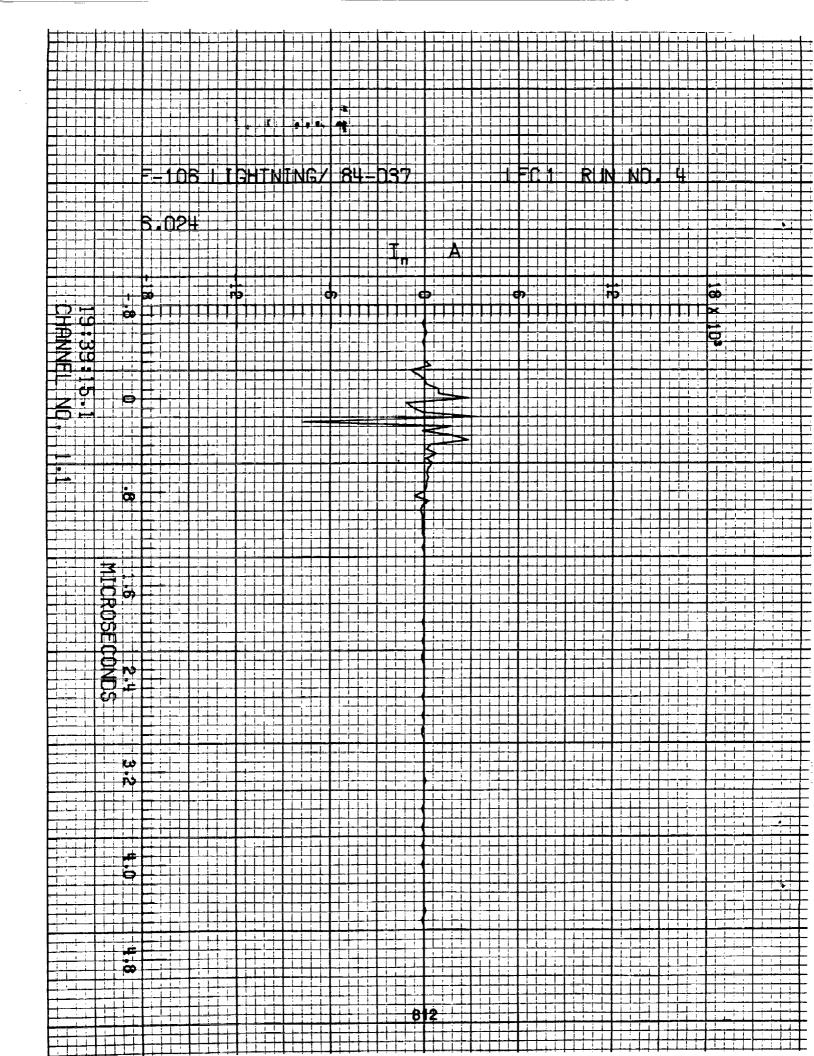


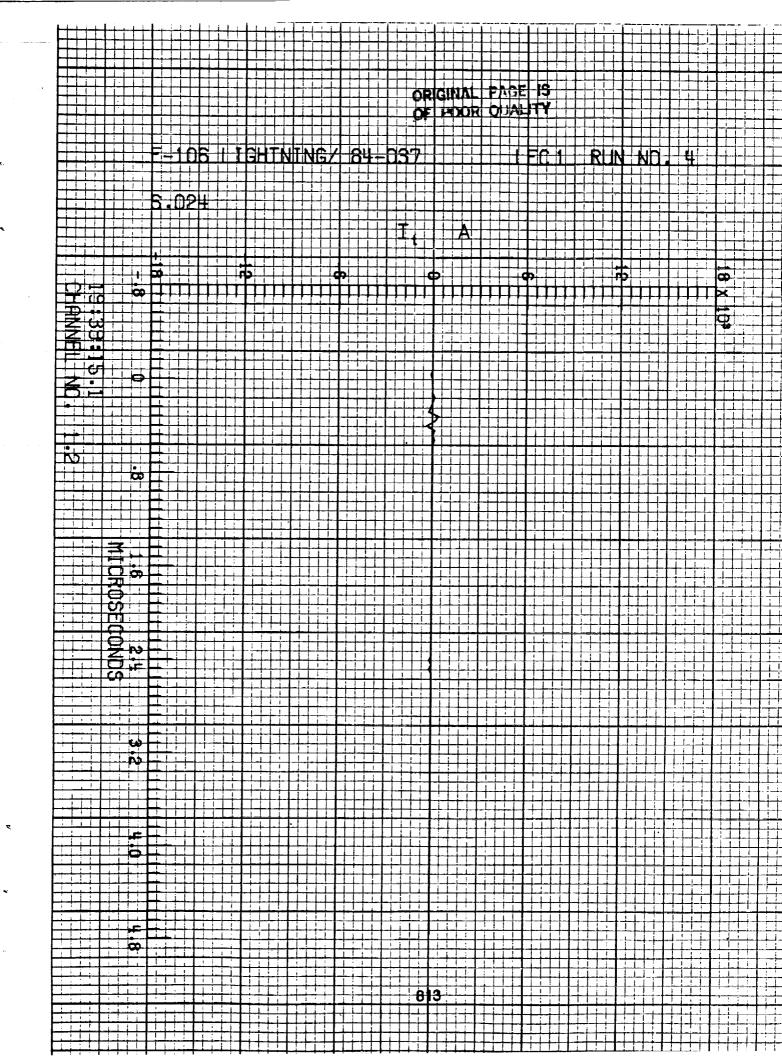


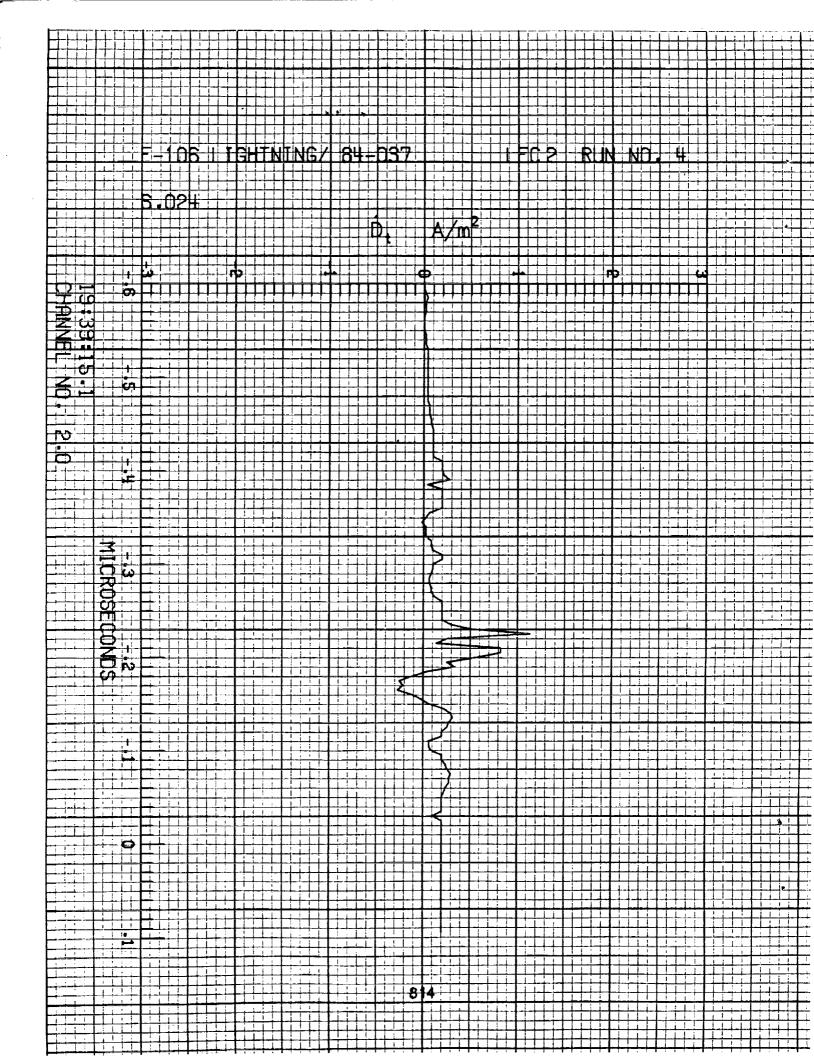


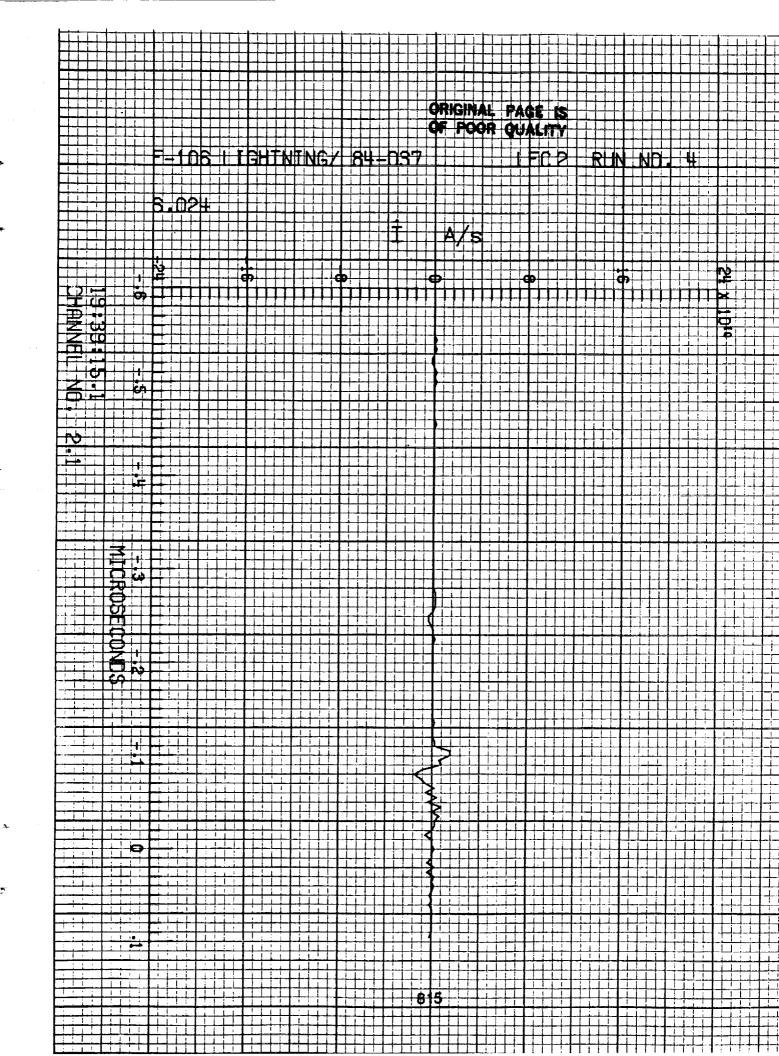


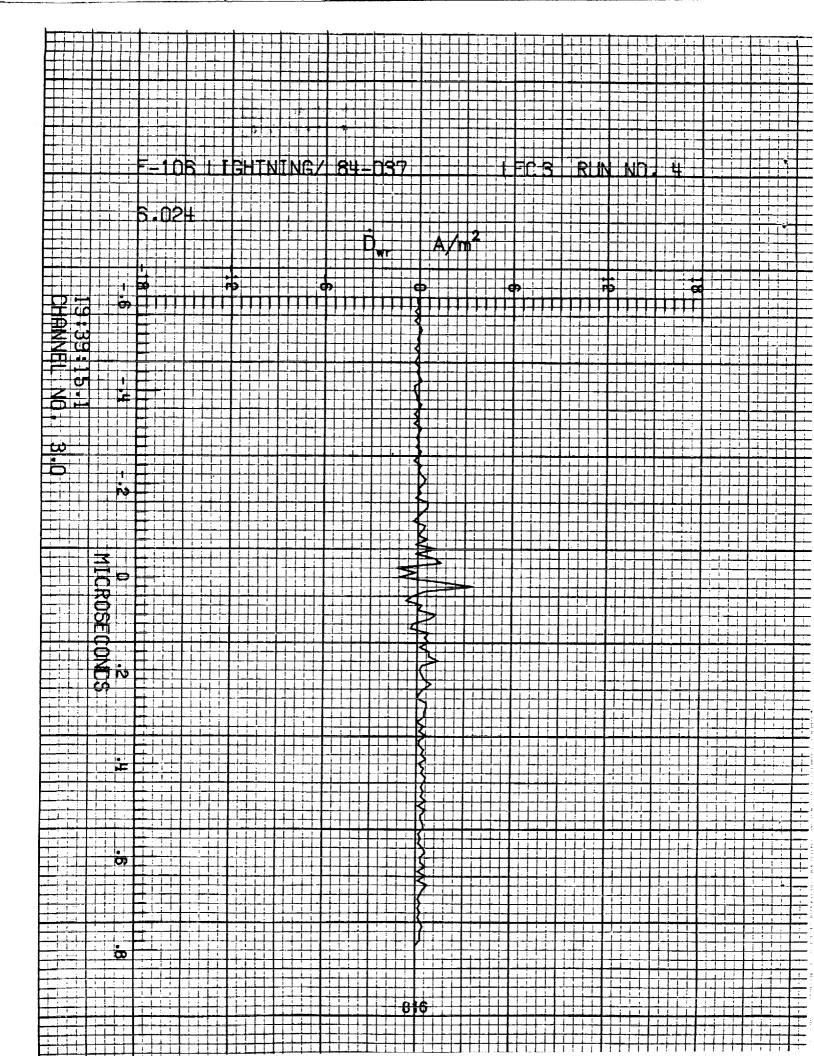


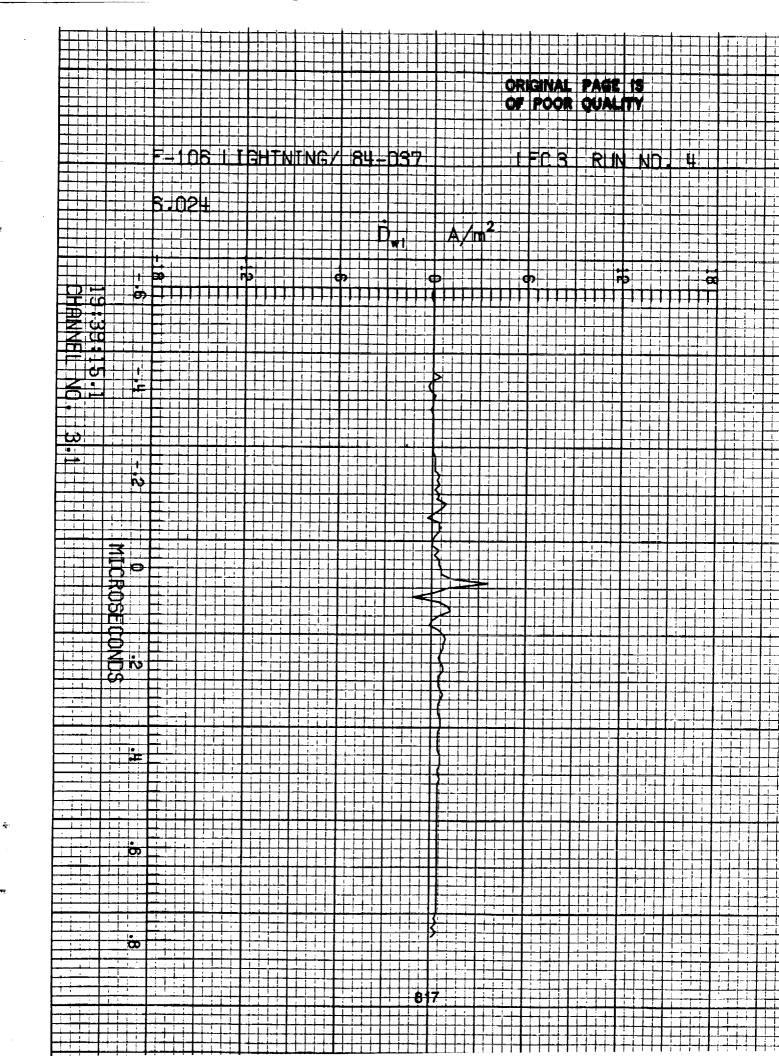


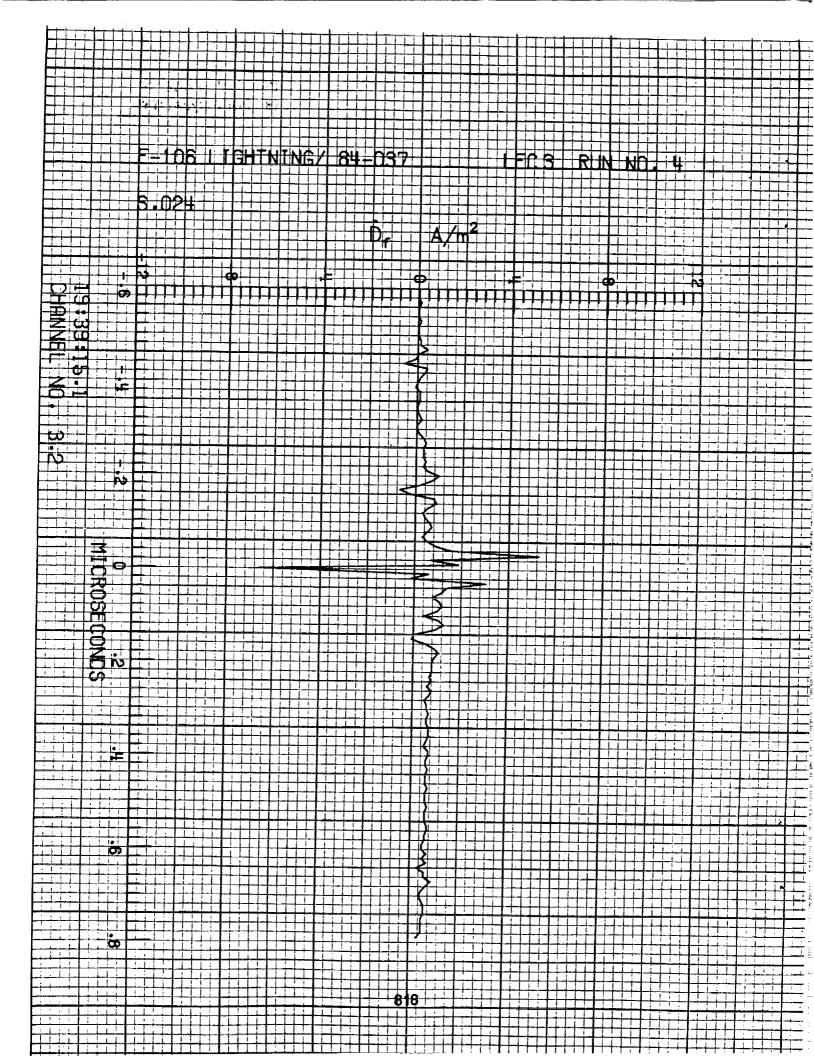






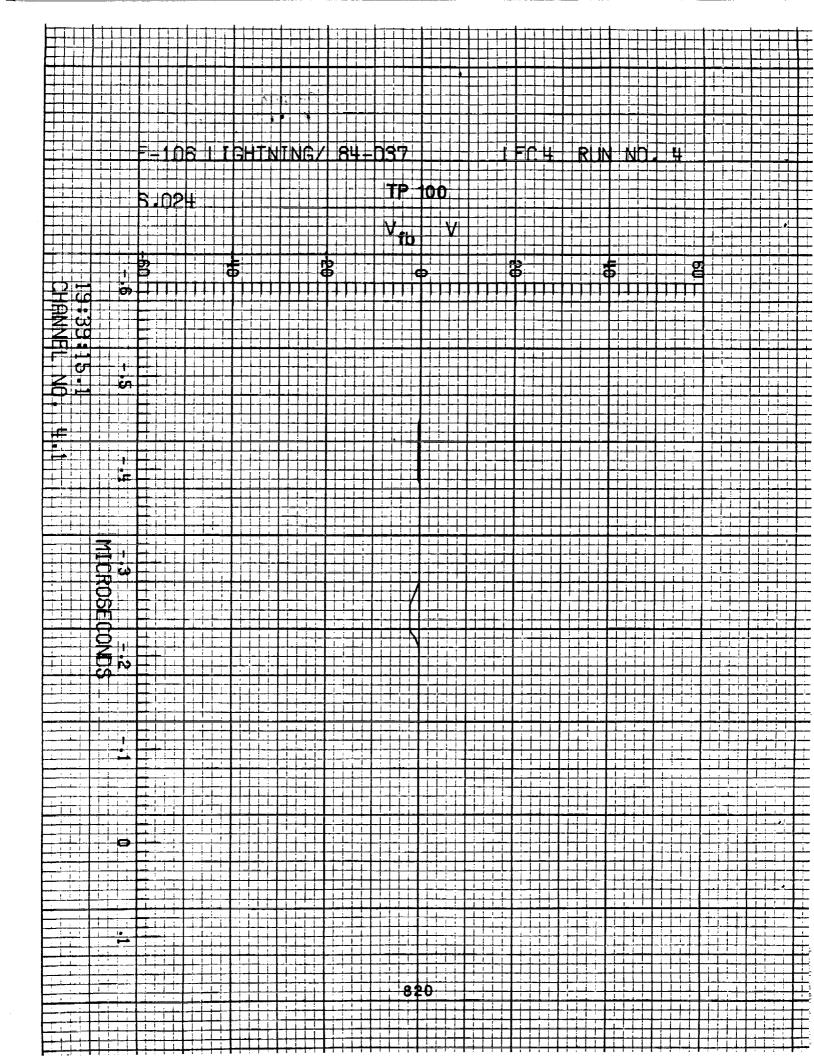


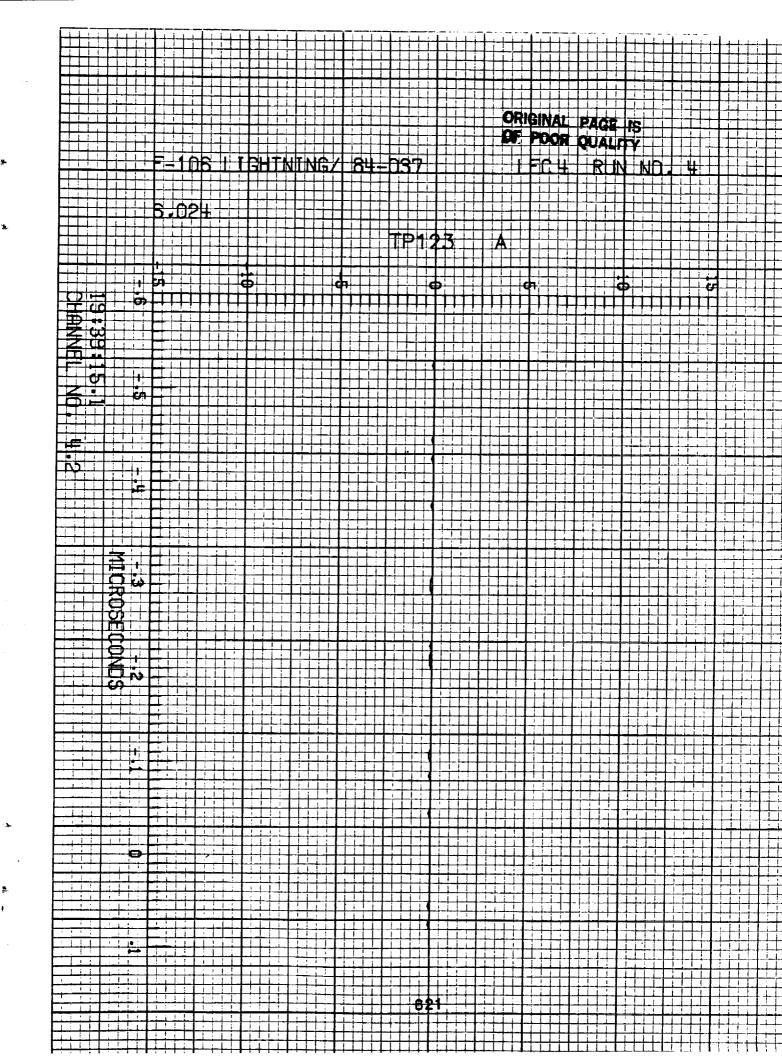


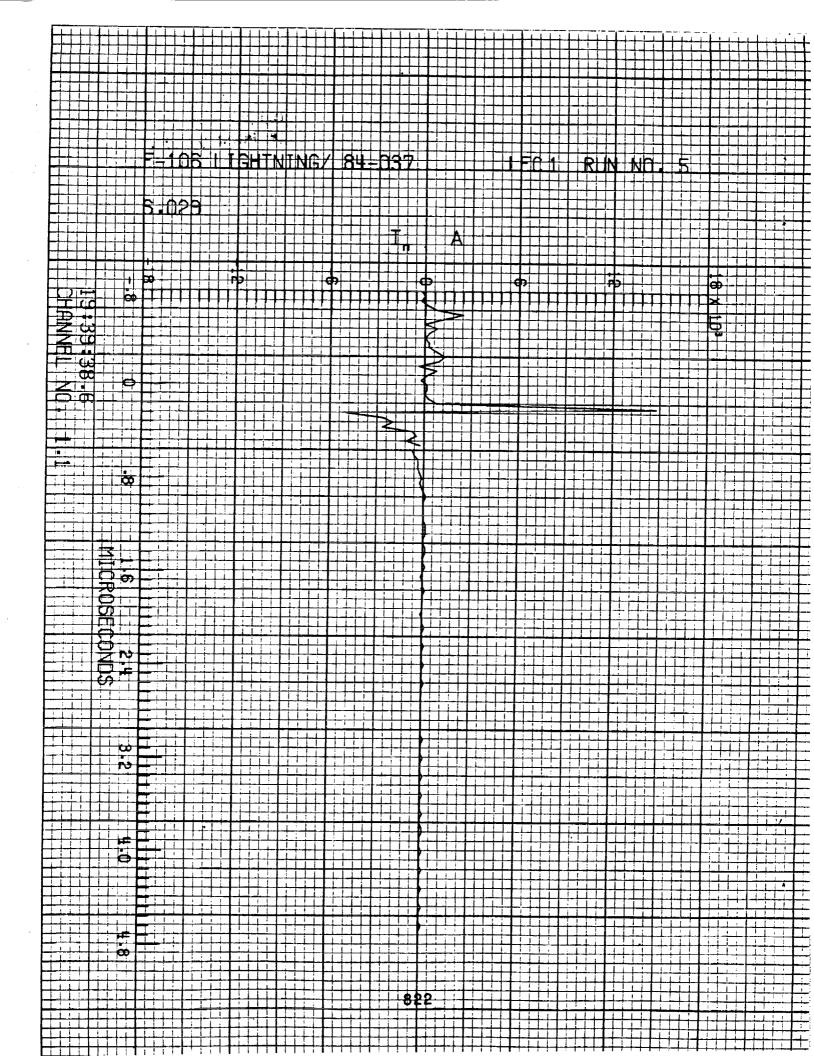


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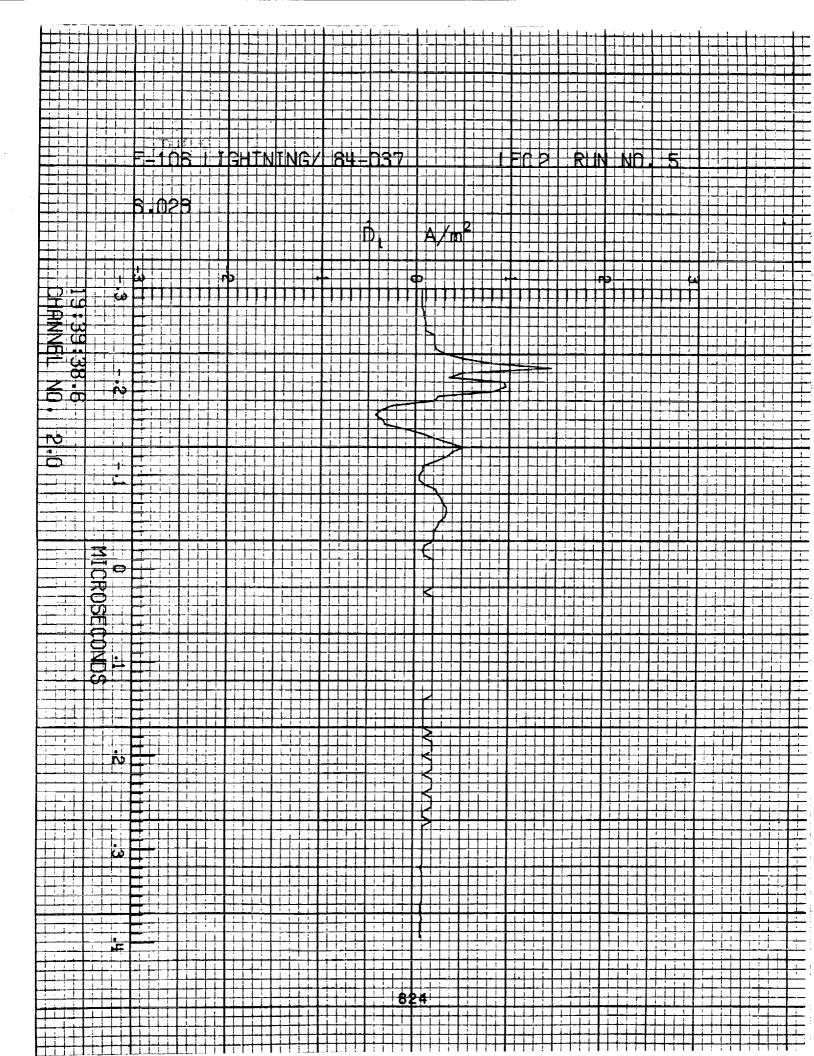


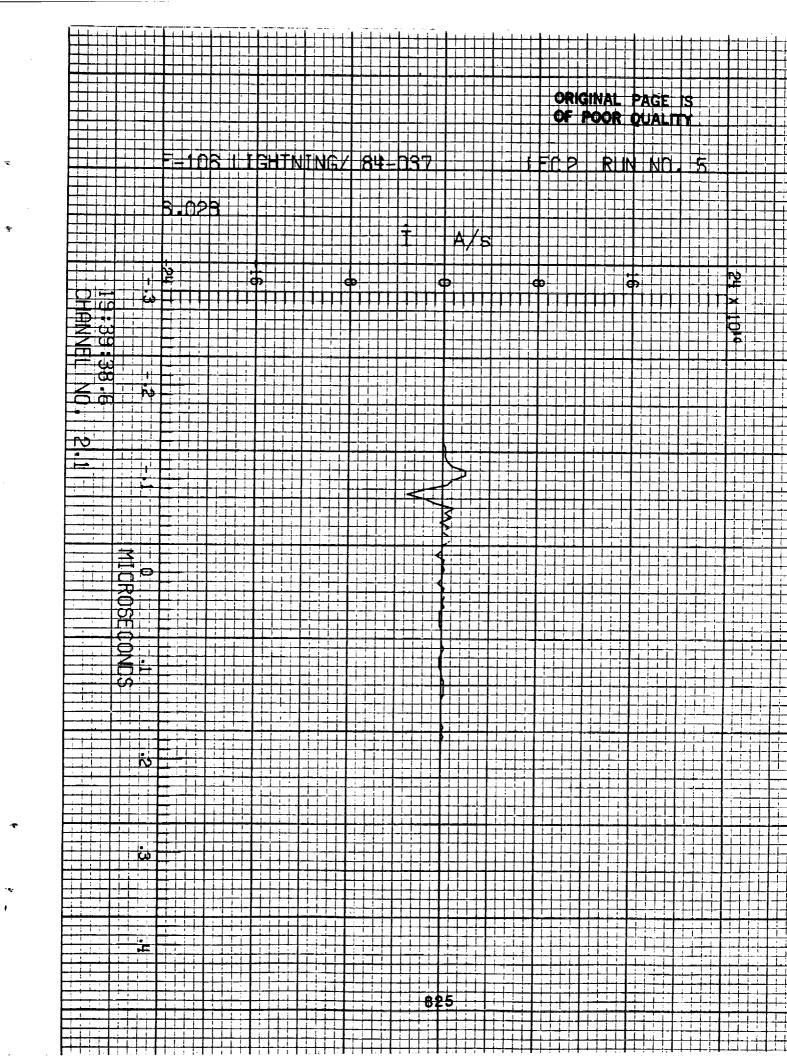


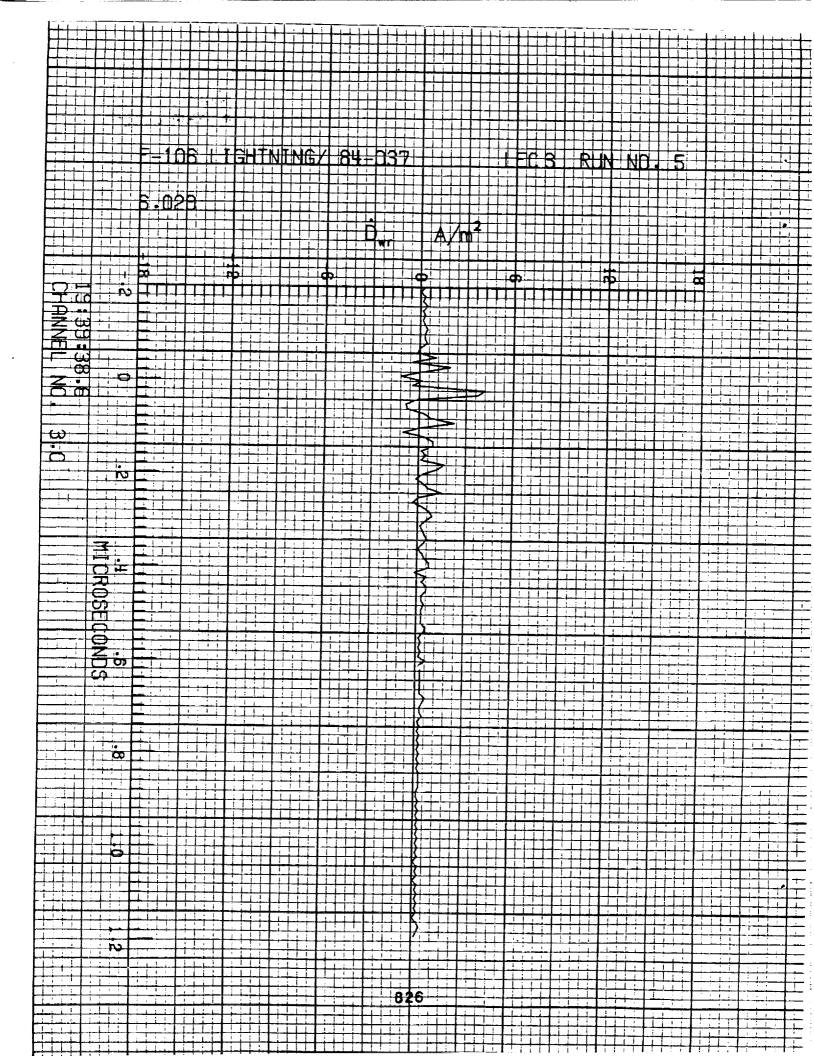


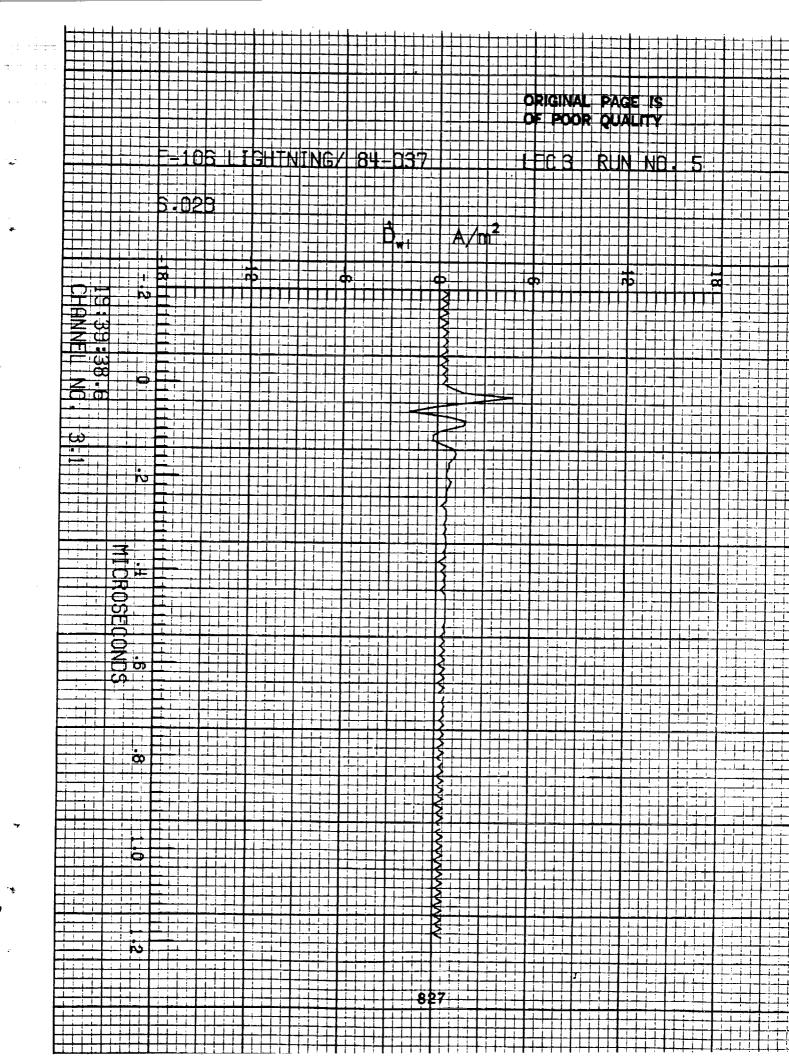
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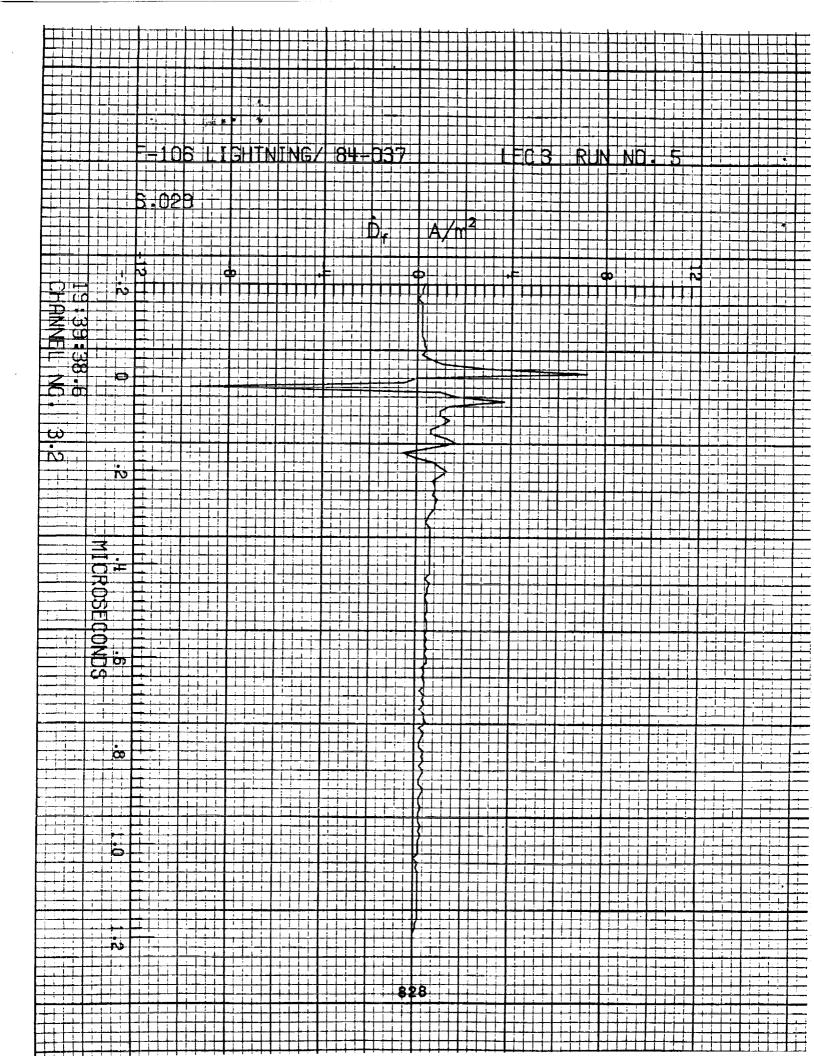
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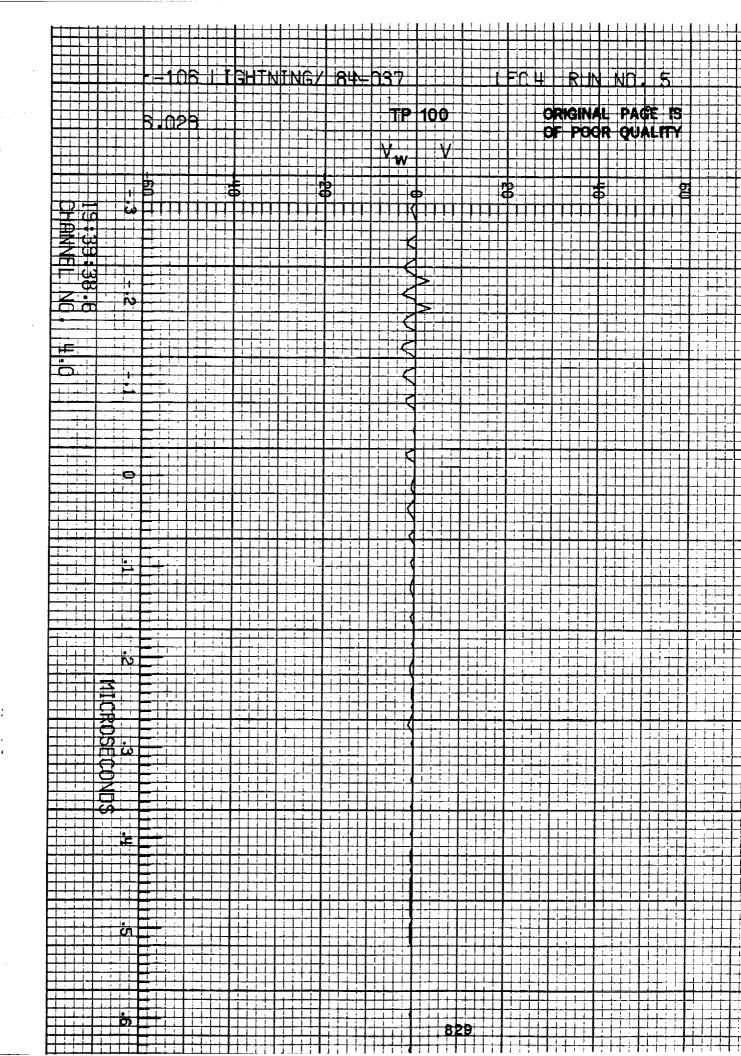


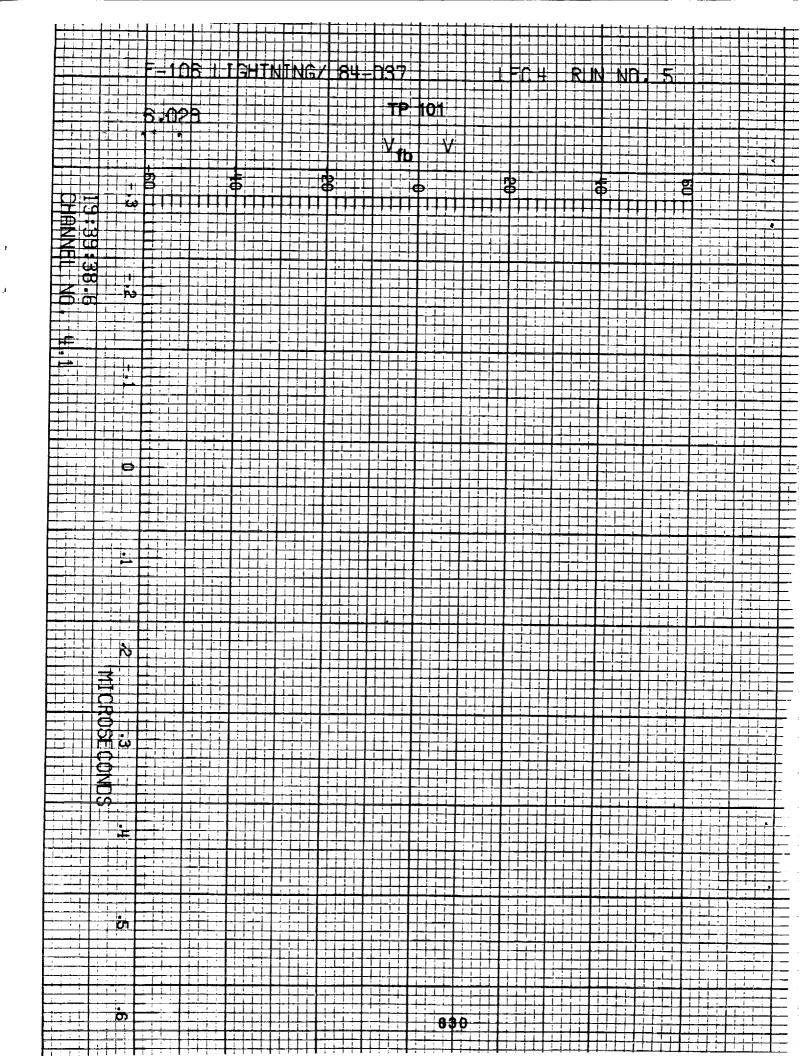






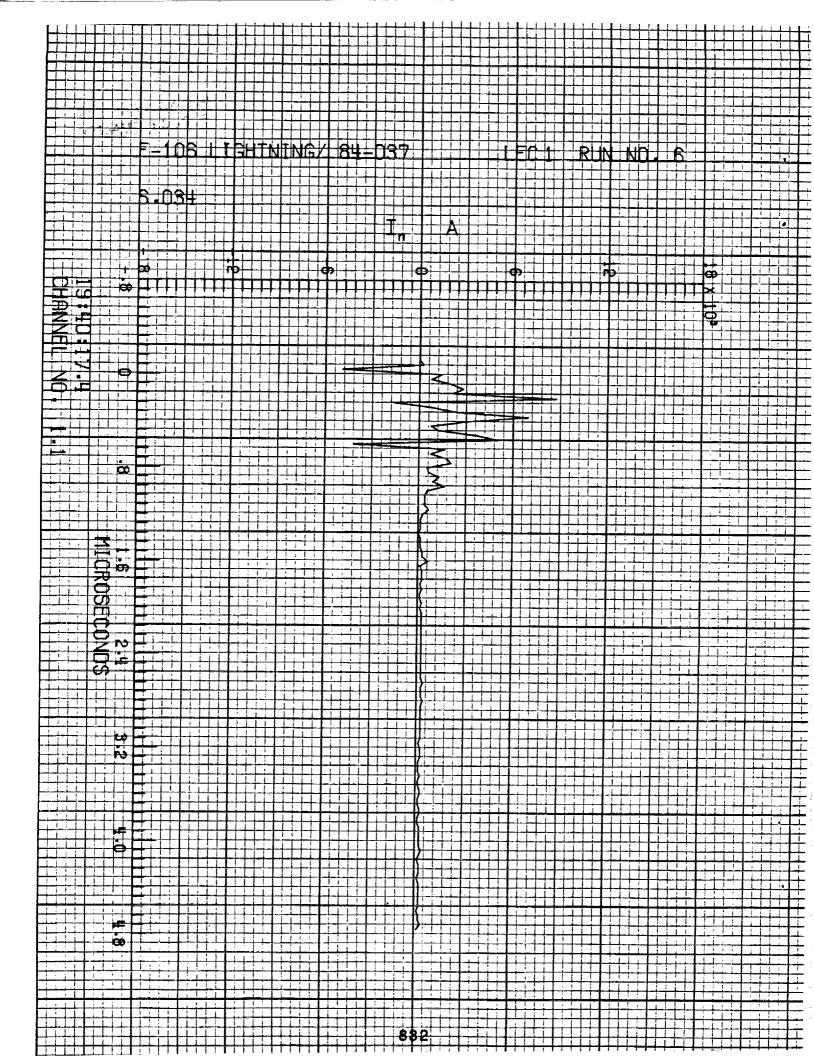


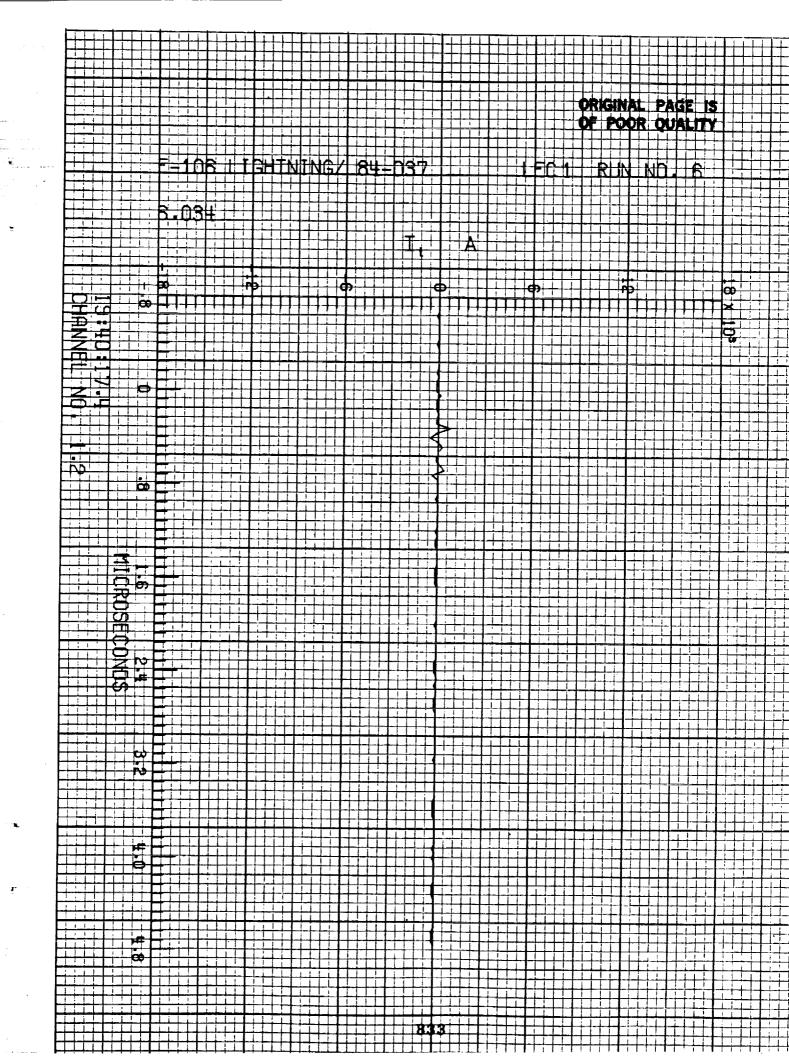


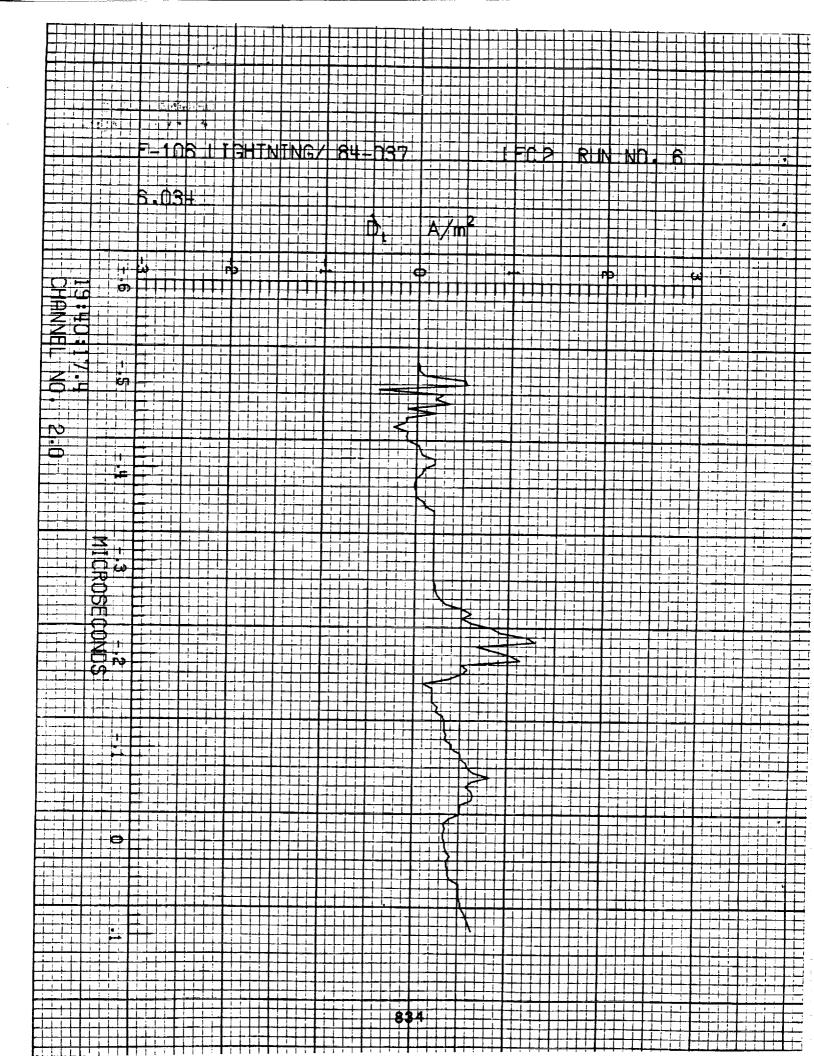


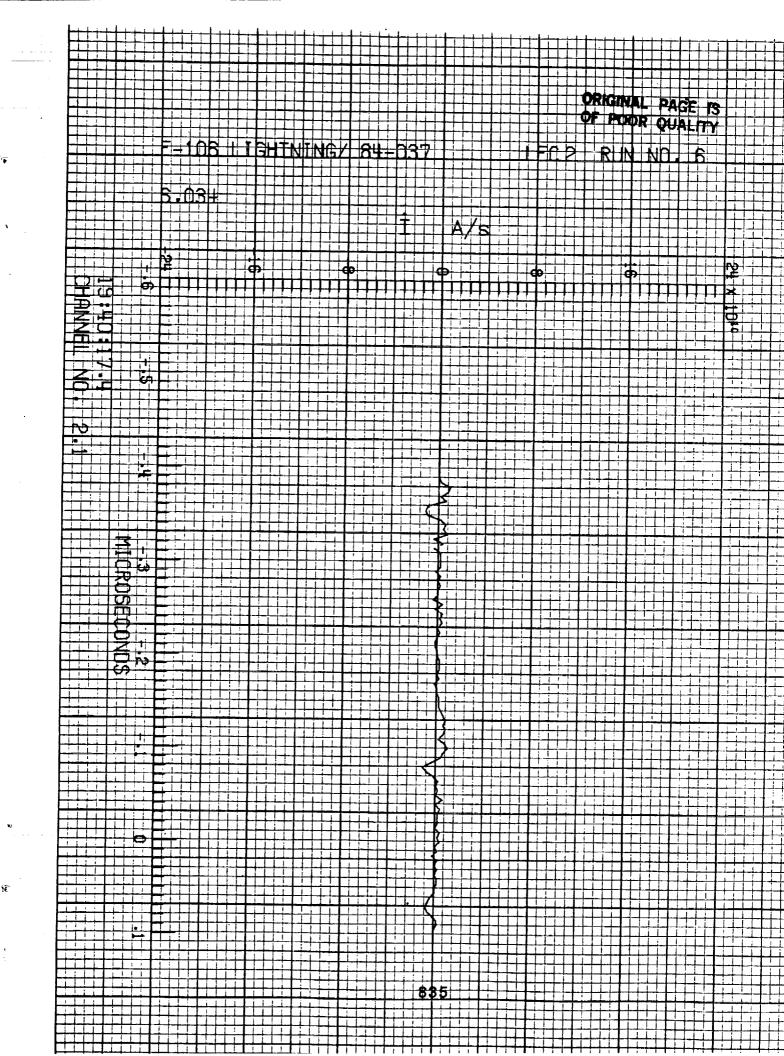
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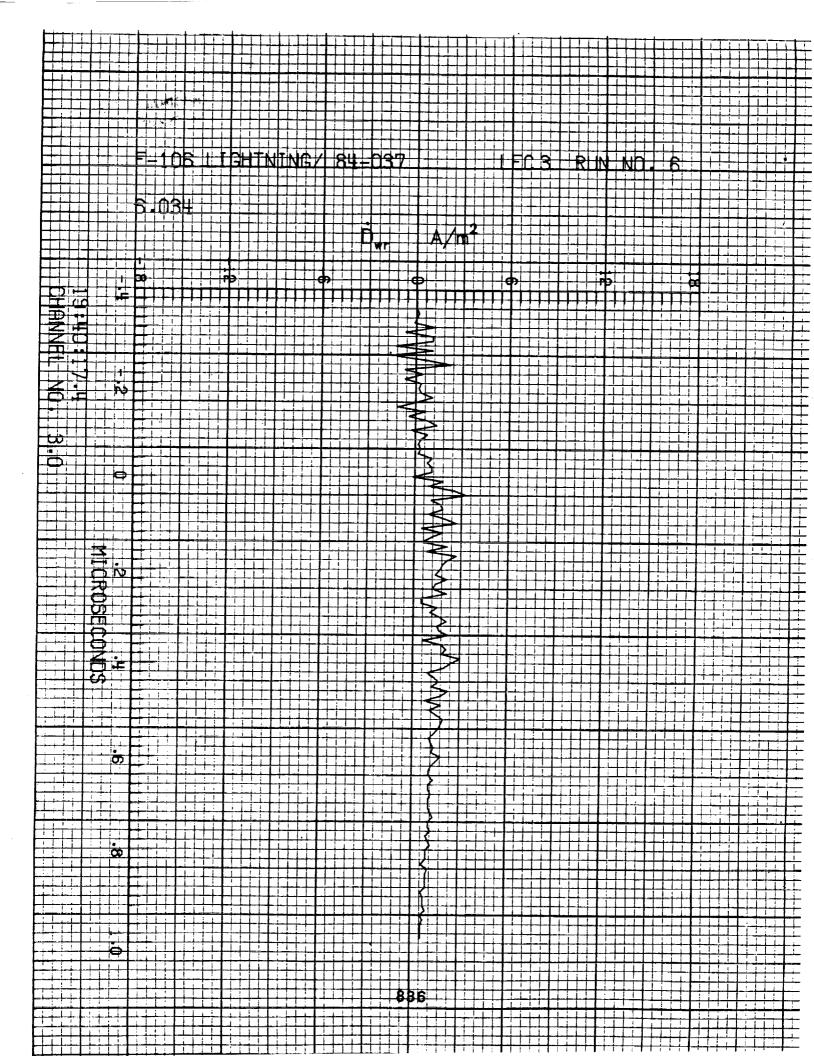
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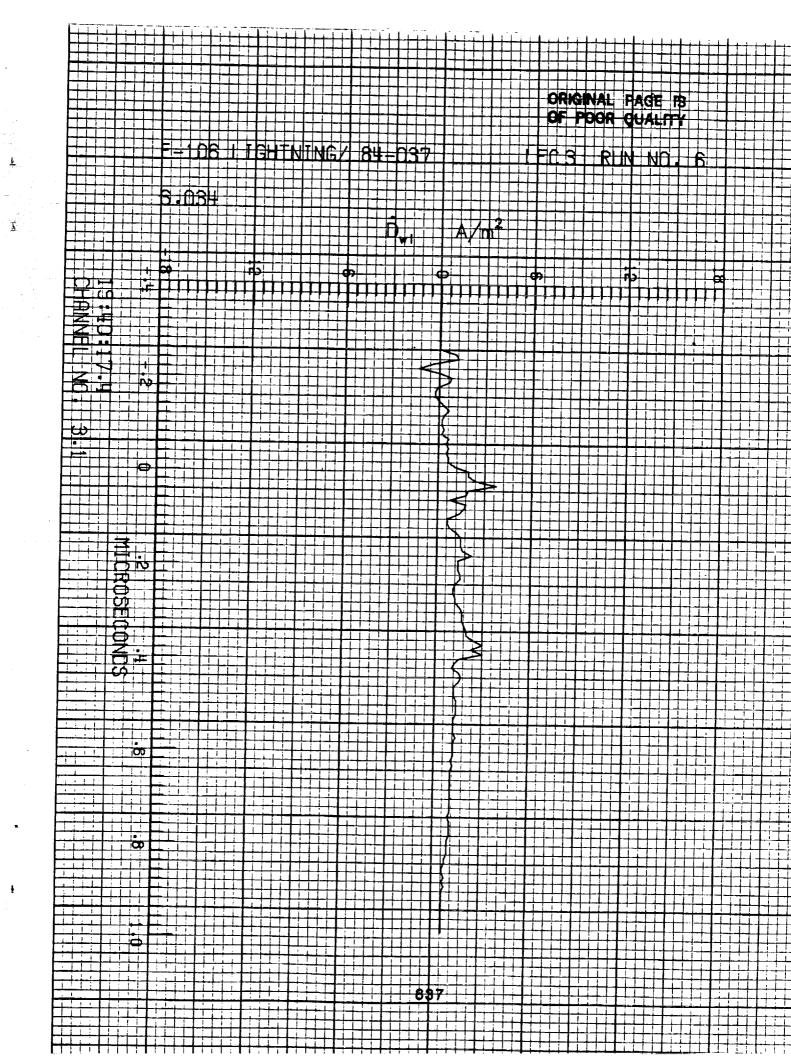


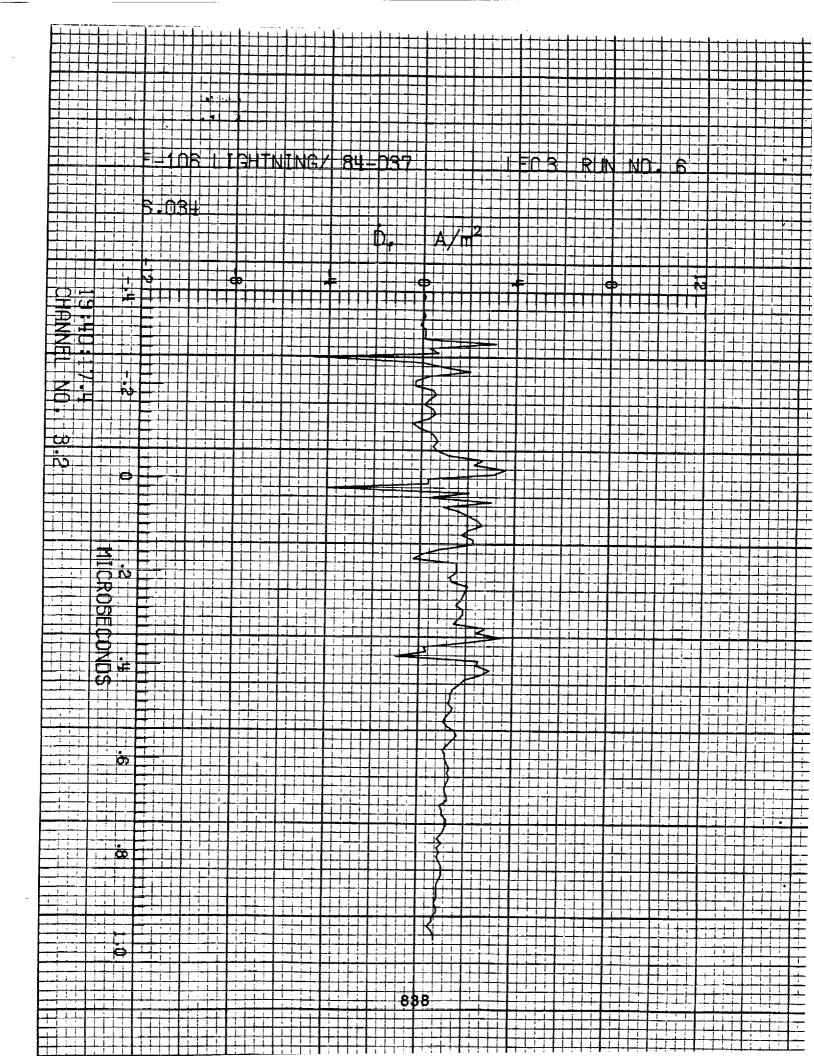


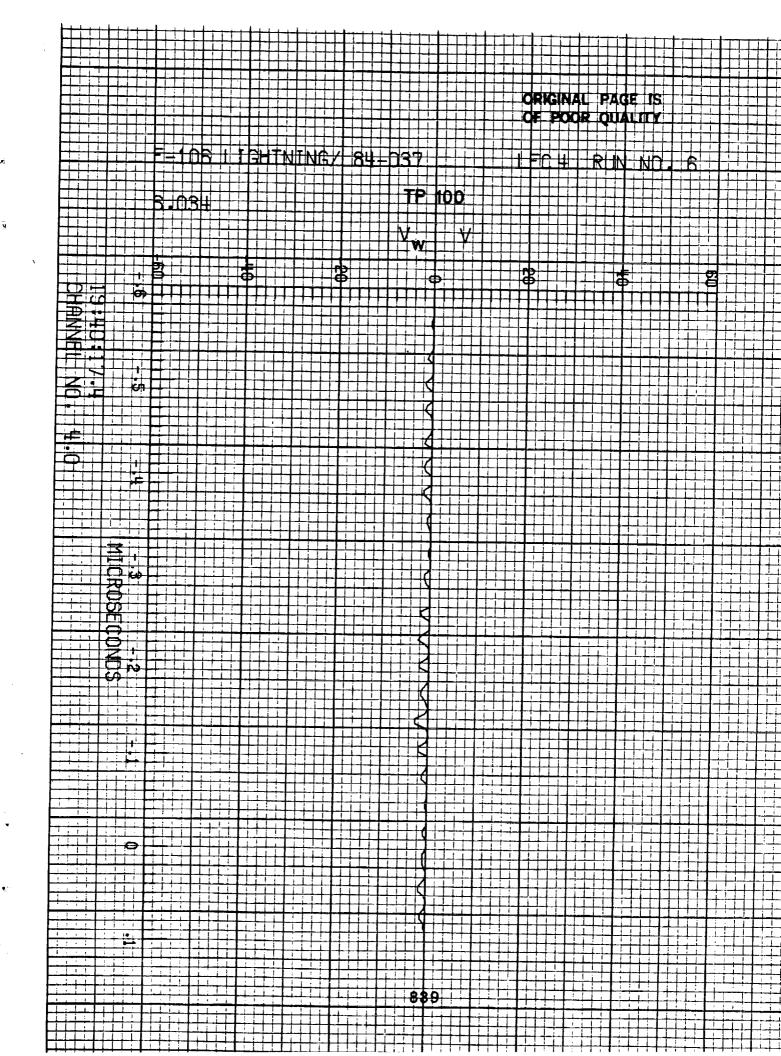


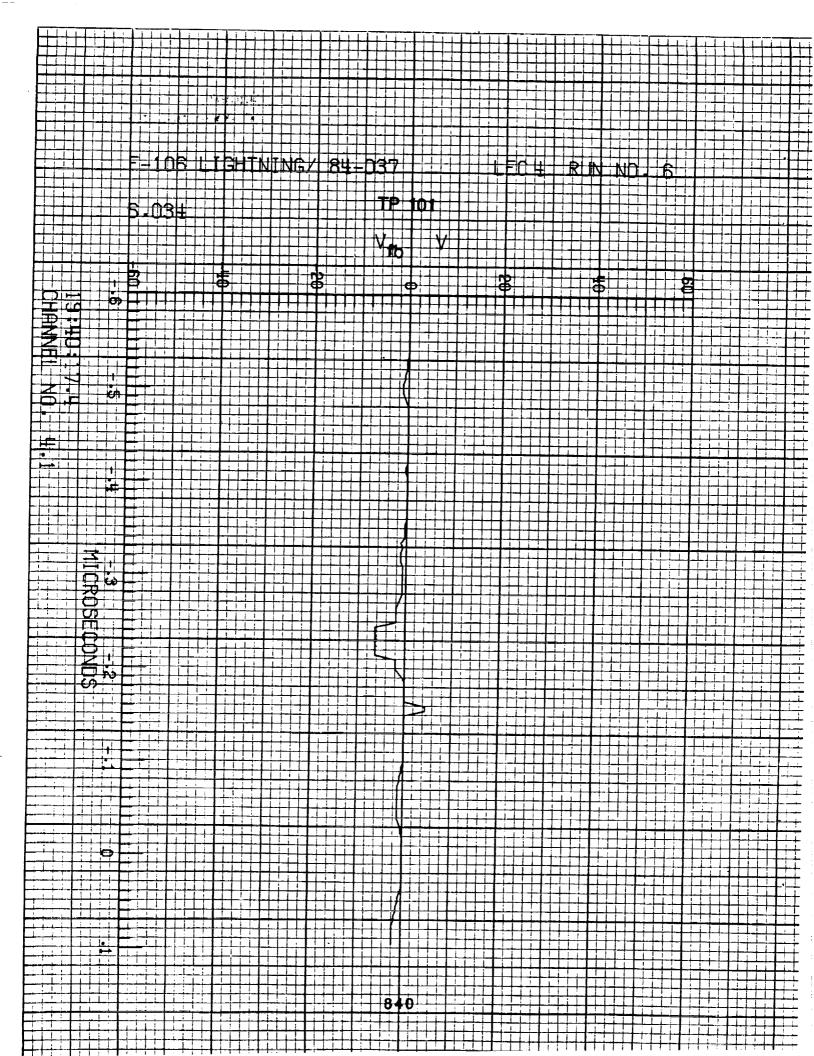


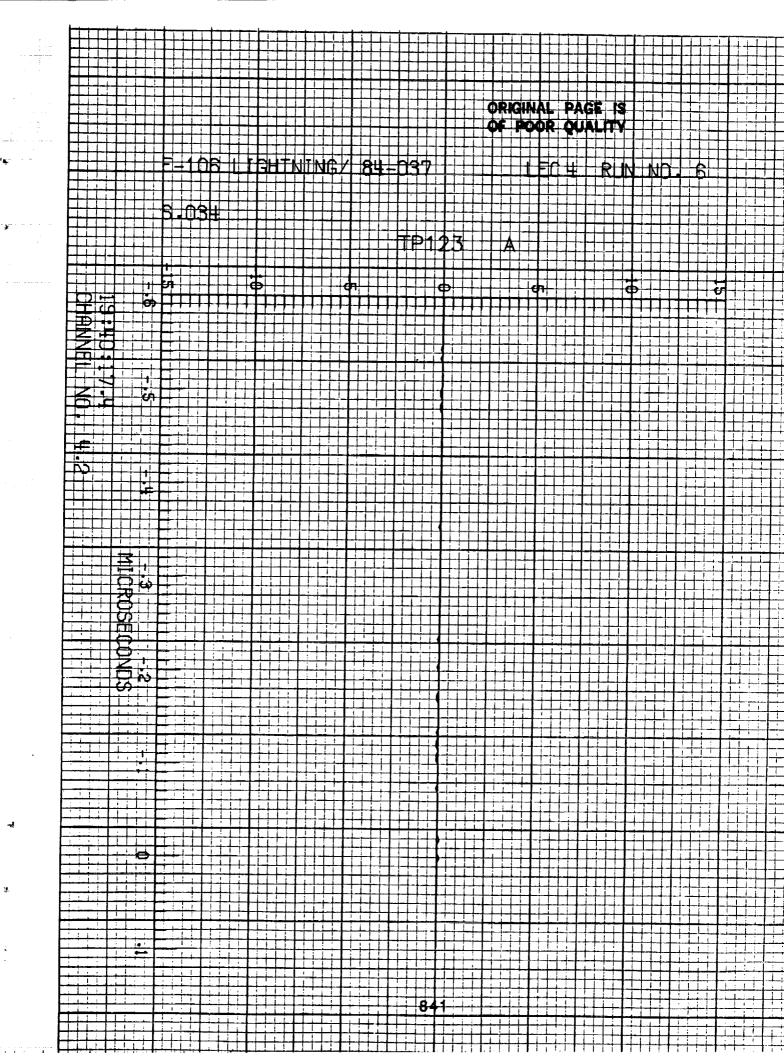


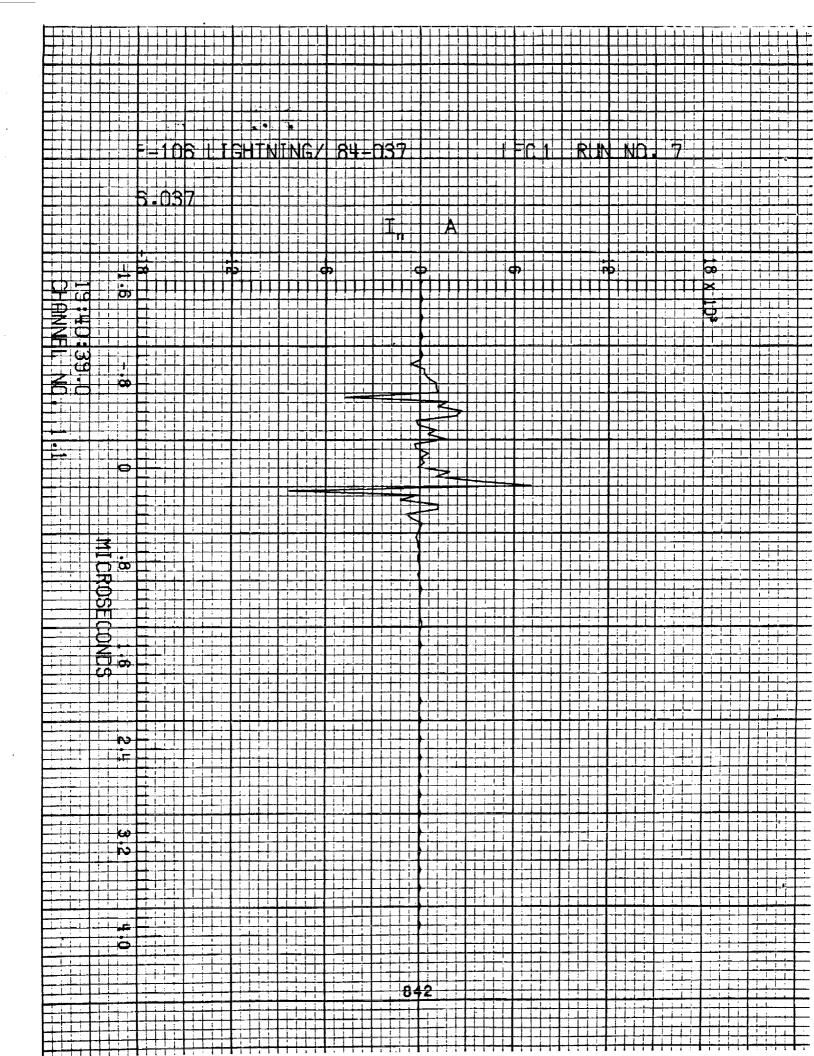


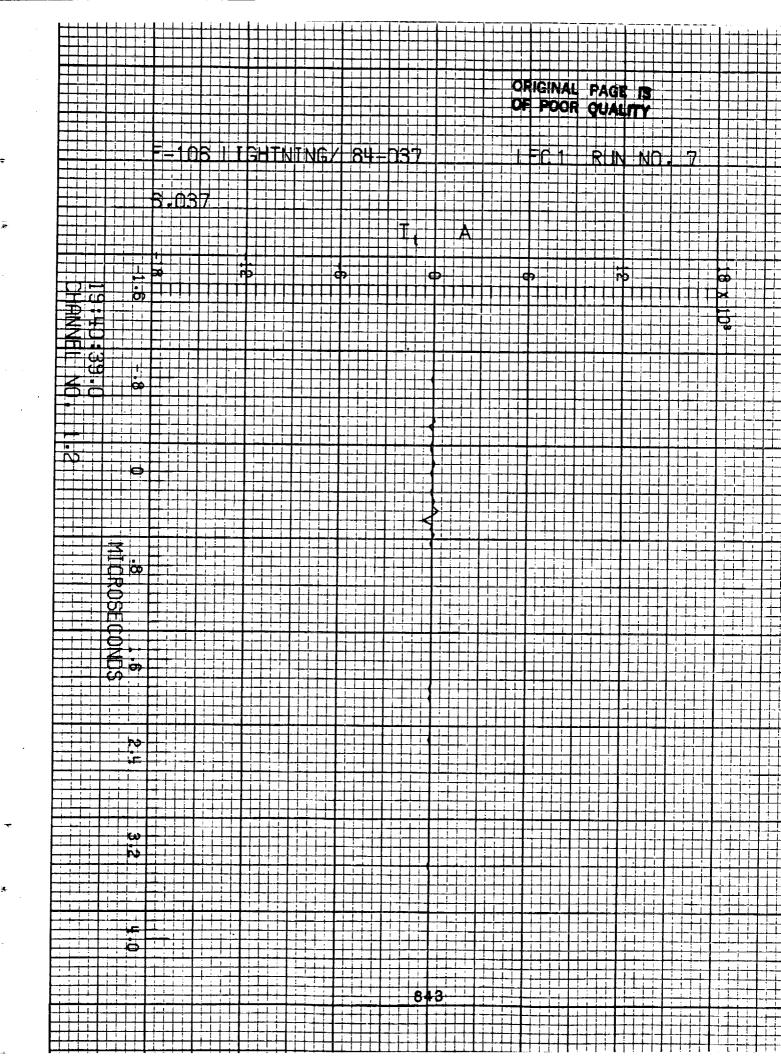


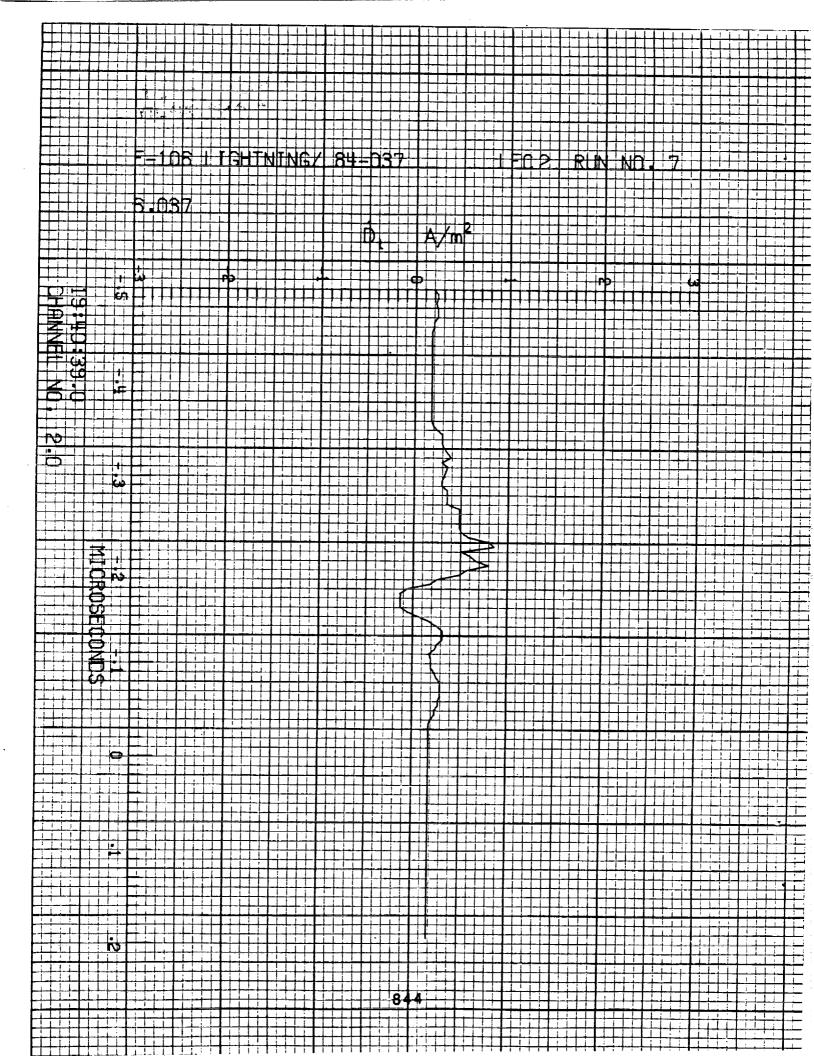


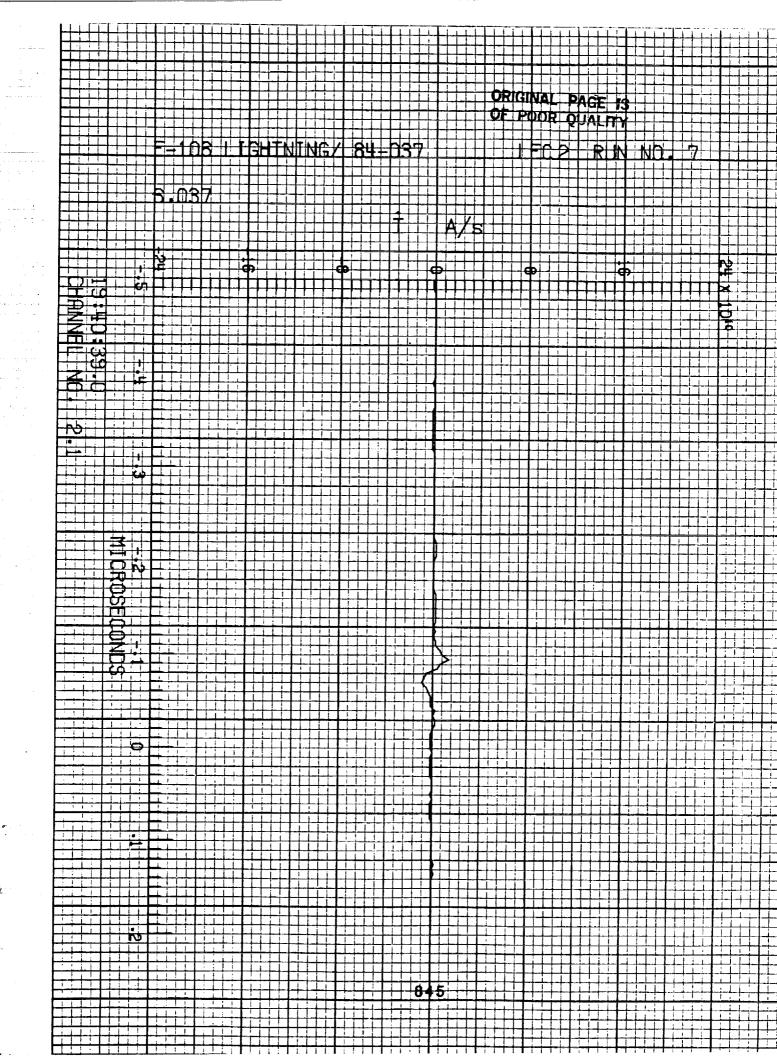


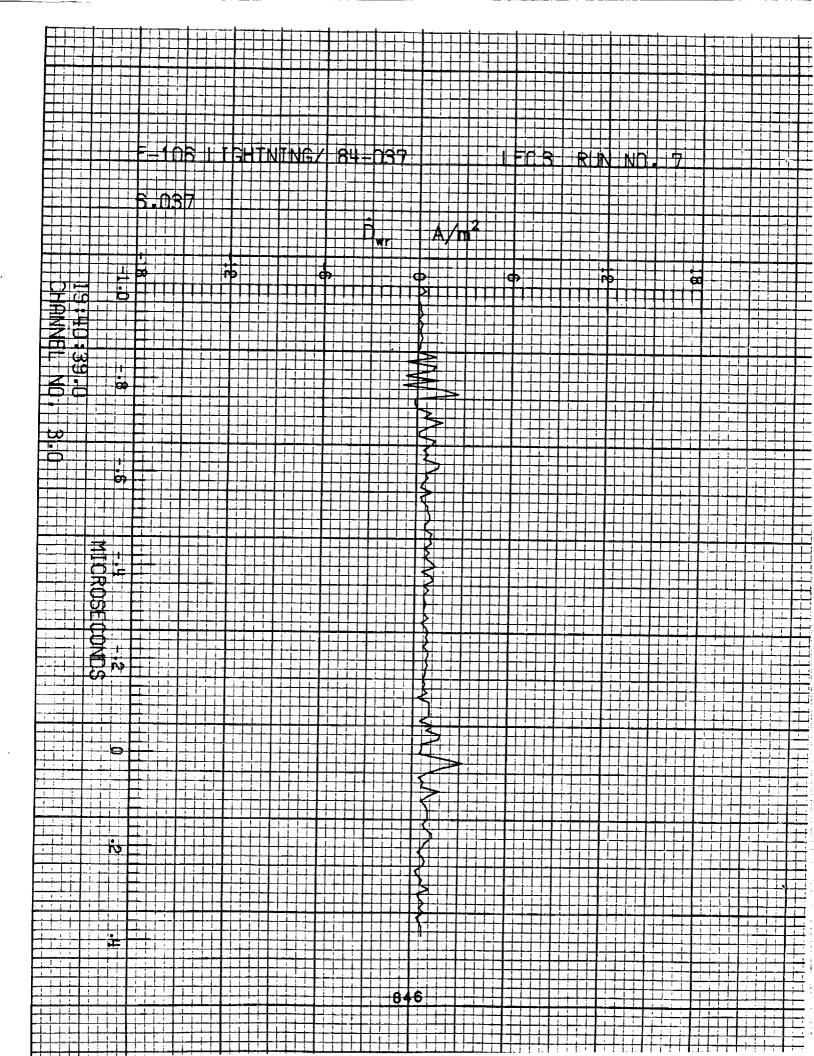


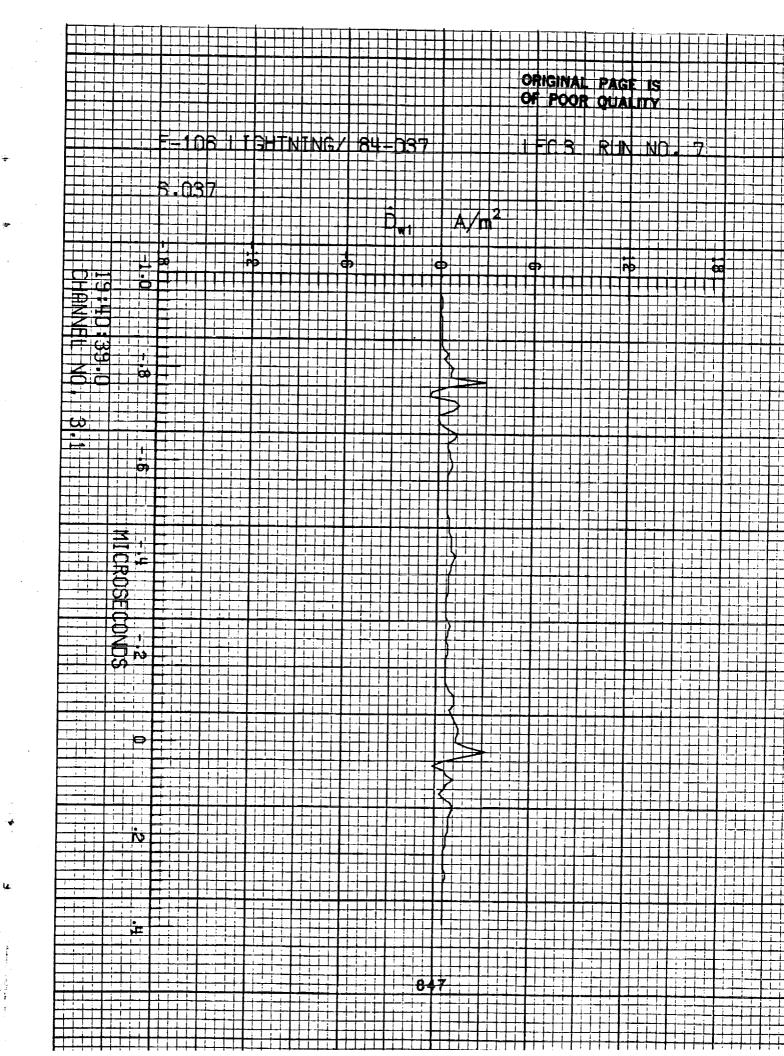


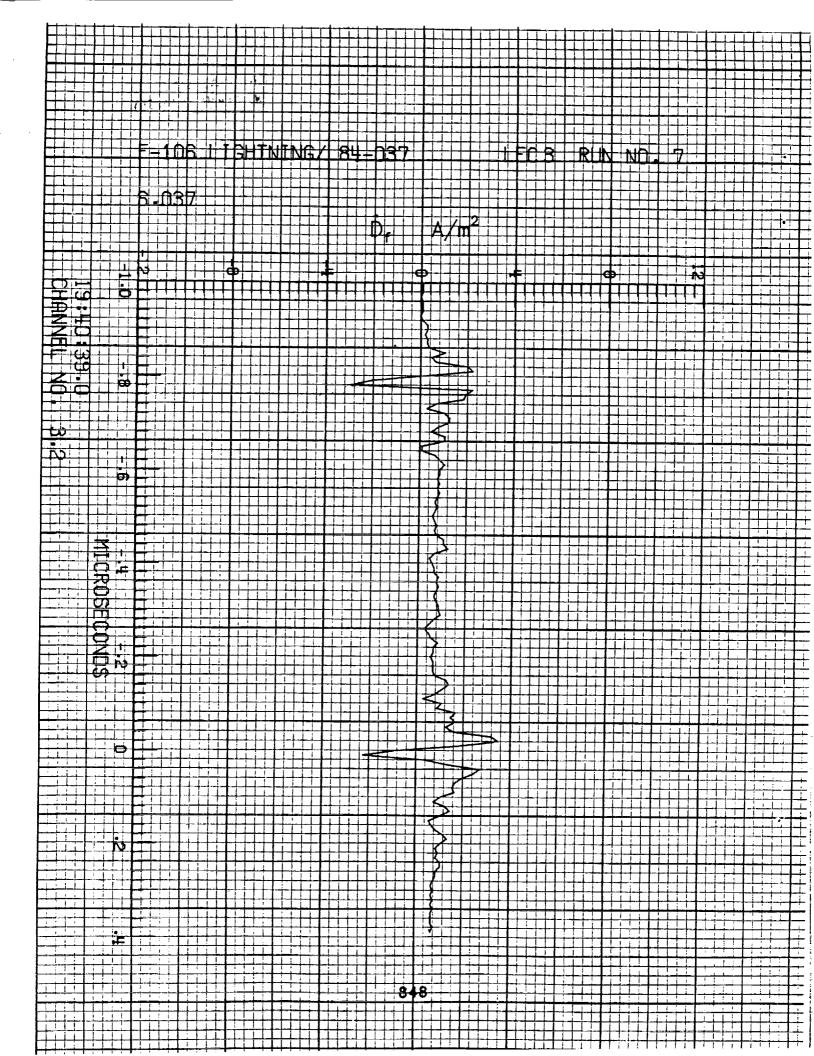


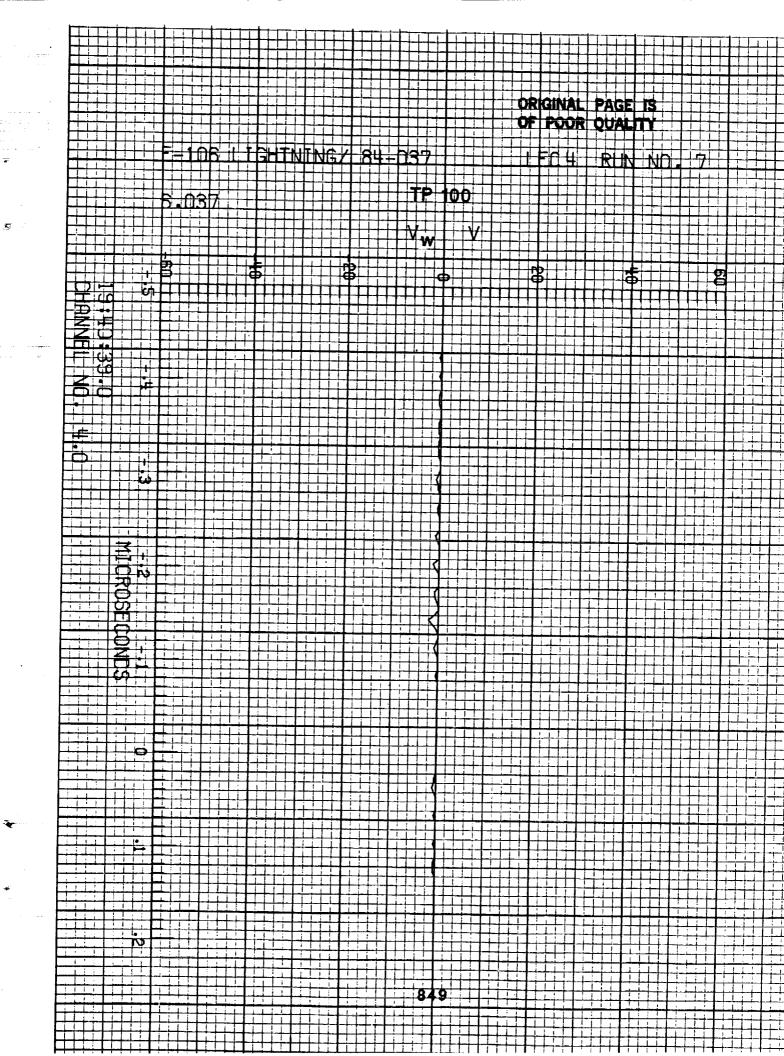


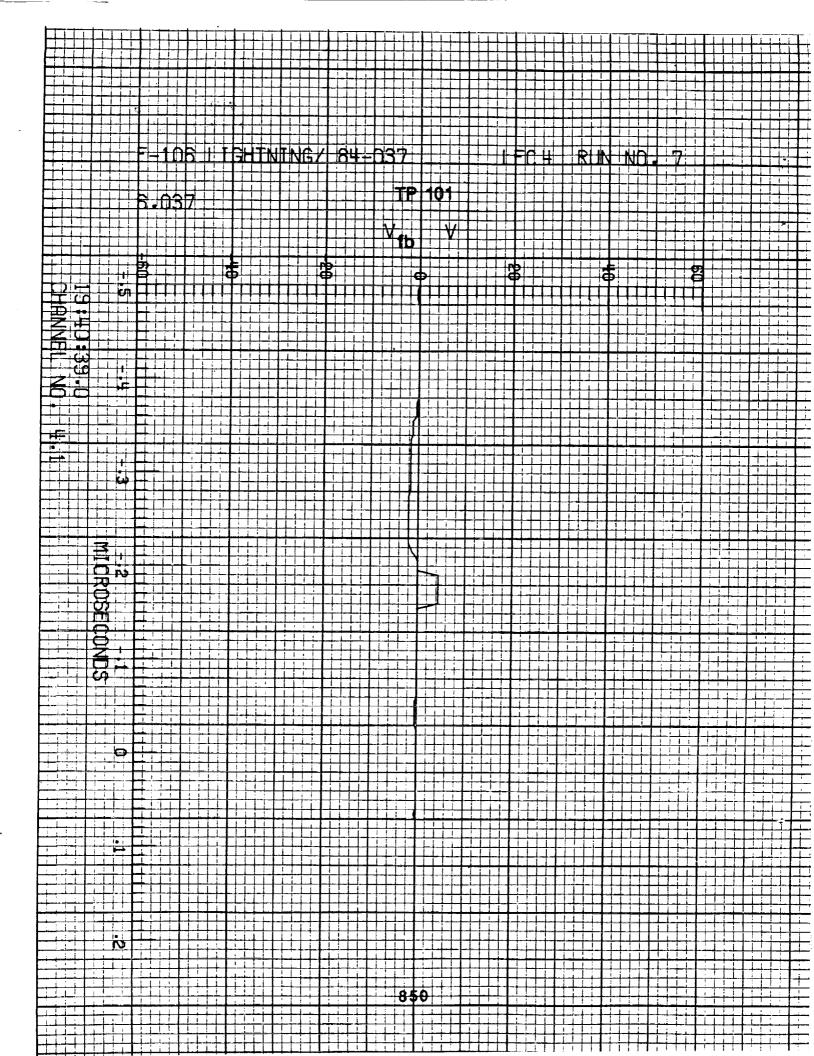


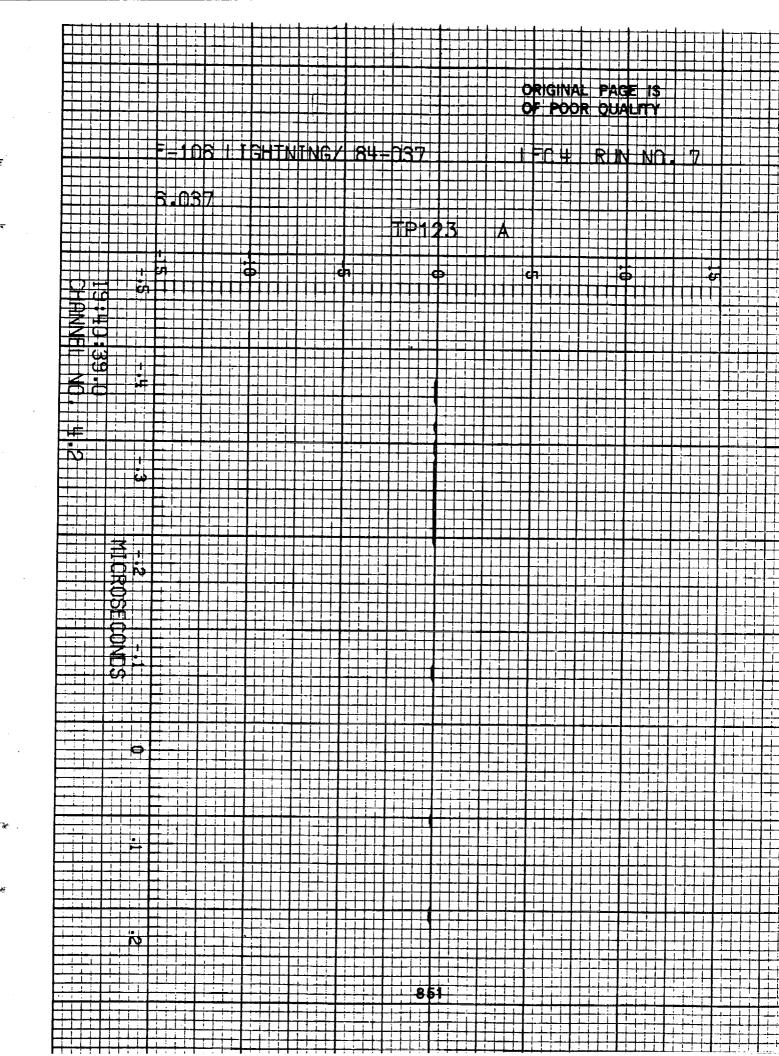












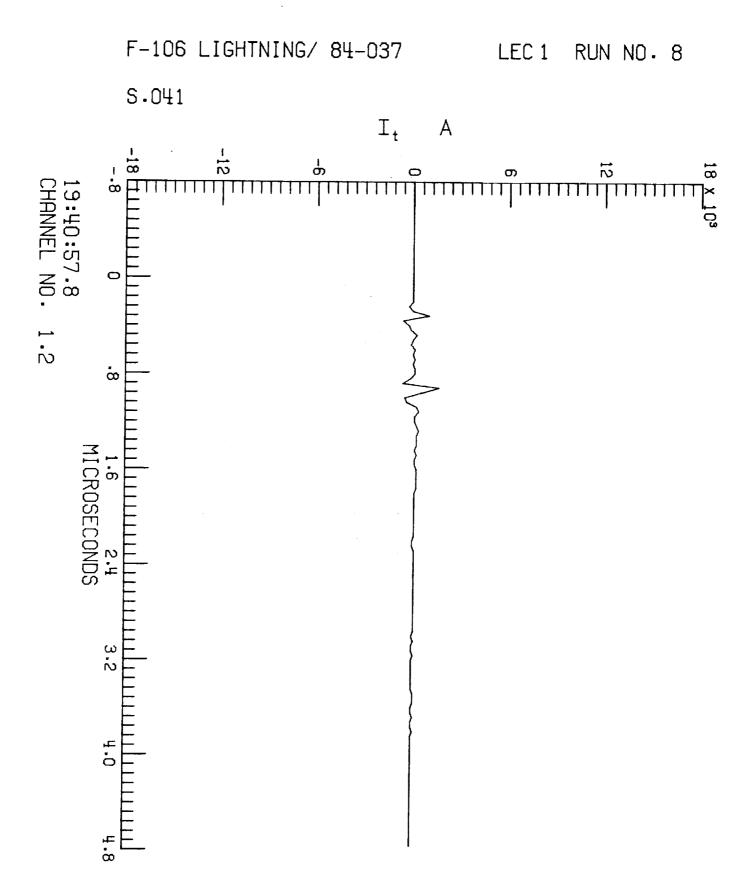
F-106 LIGHTNING/ 84-037 LEC 1 RUN NO. 8

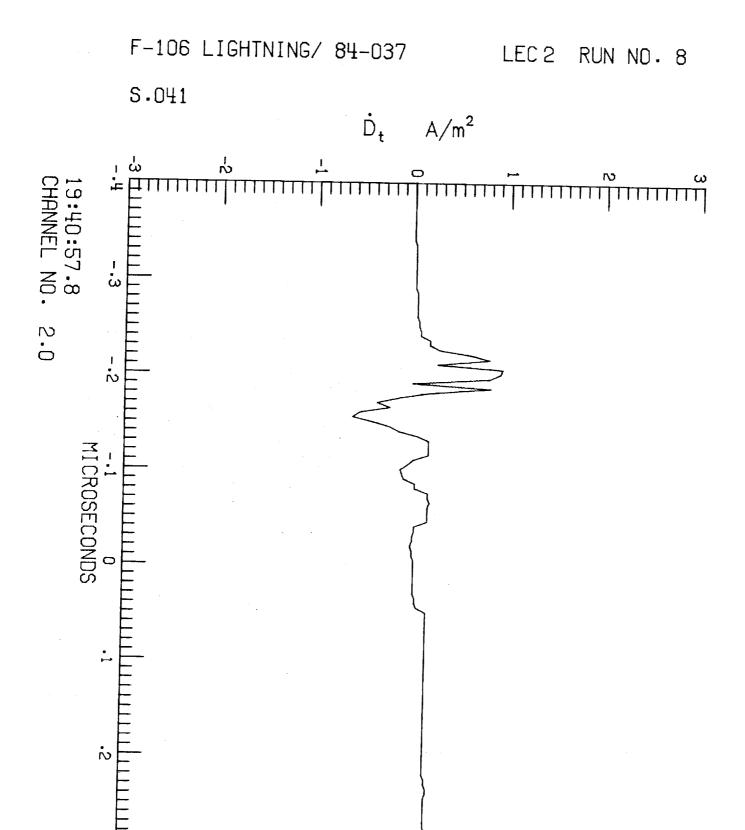
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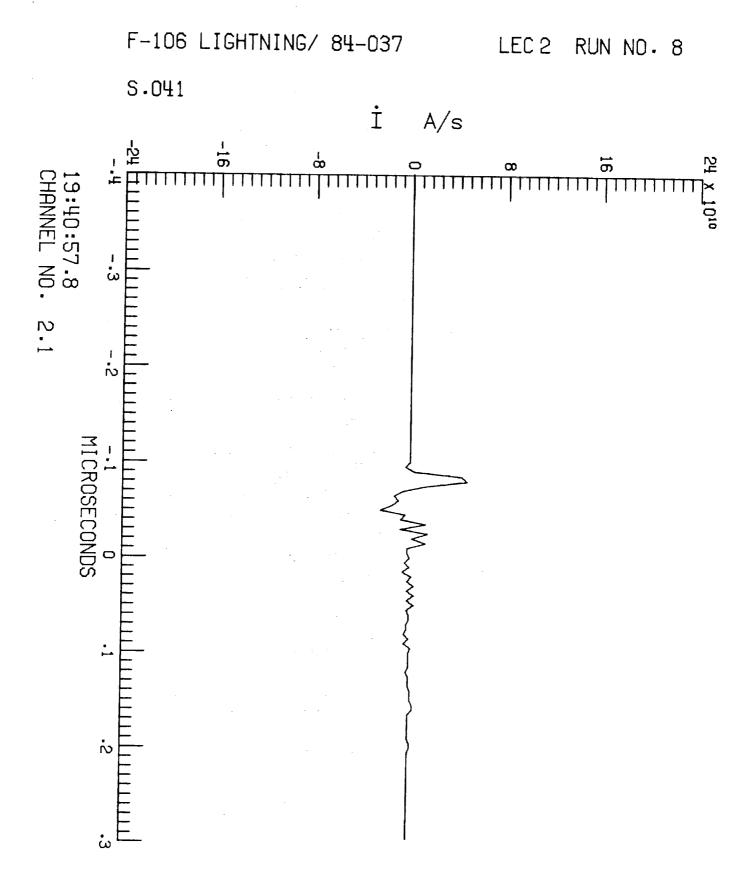
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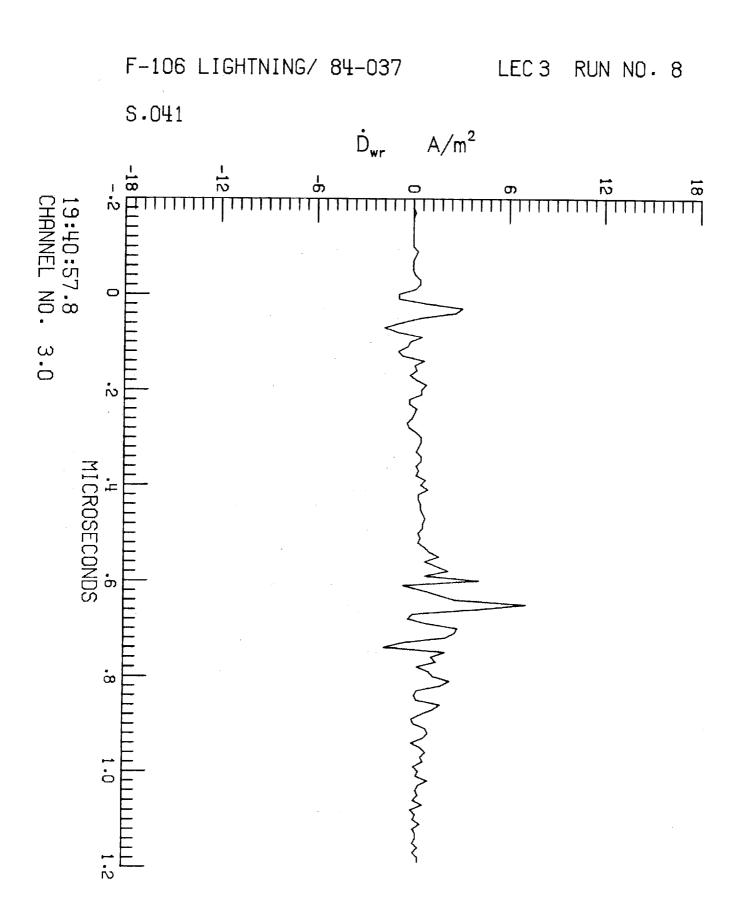
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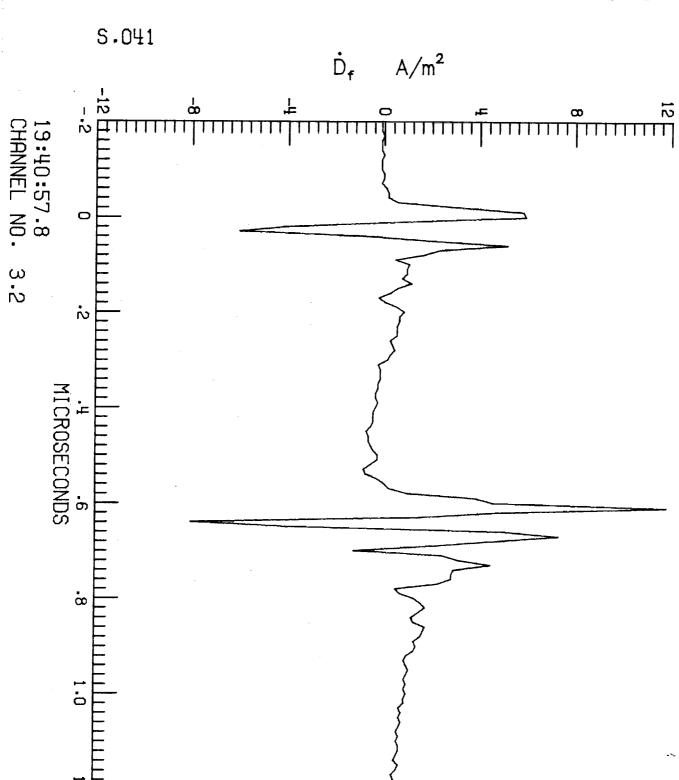




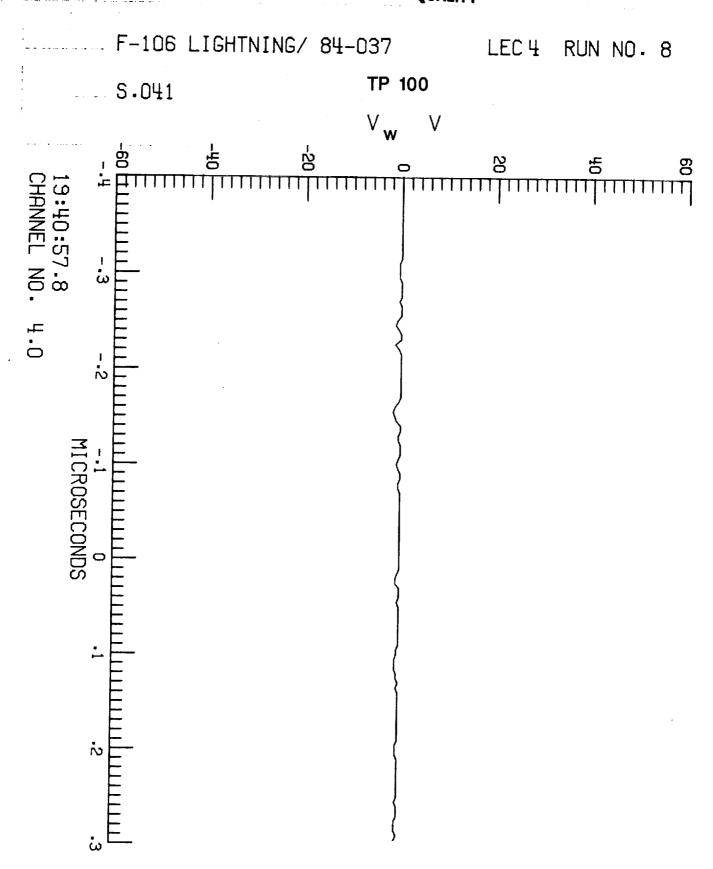
F-106 LIGHTNING/ 84-037 LEC 3 RUN NO. 8 S.041 \dot{D}_{w1} A/m^2 19:40:57.8 CHANNEL NO. 3.1 .4 MICROSECONDS

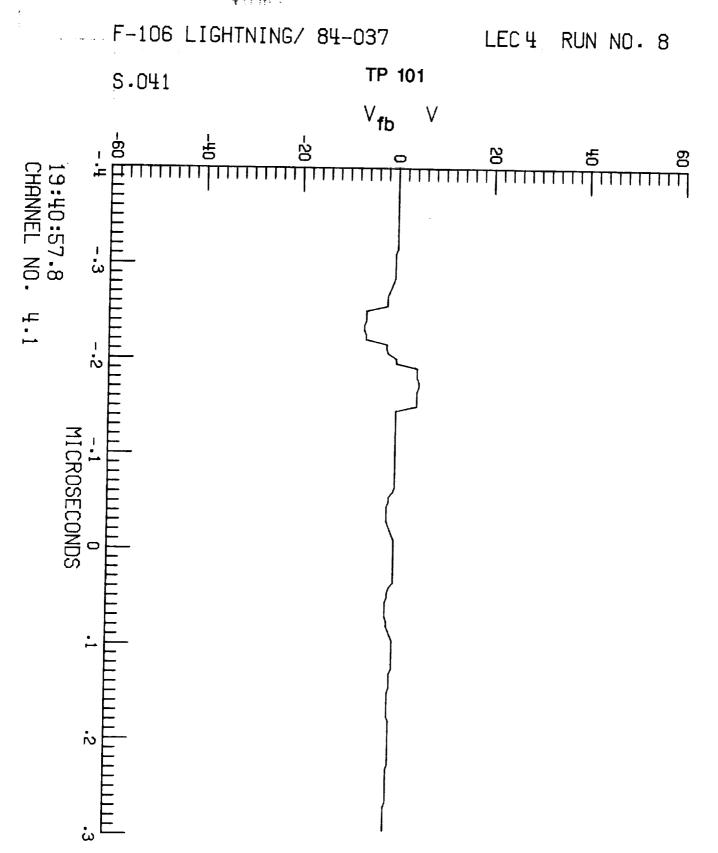


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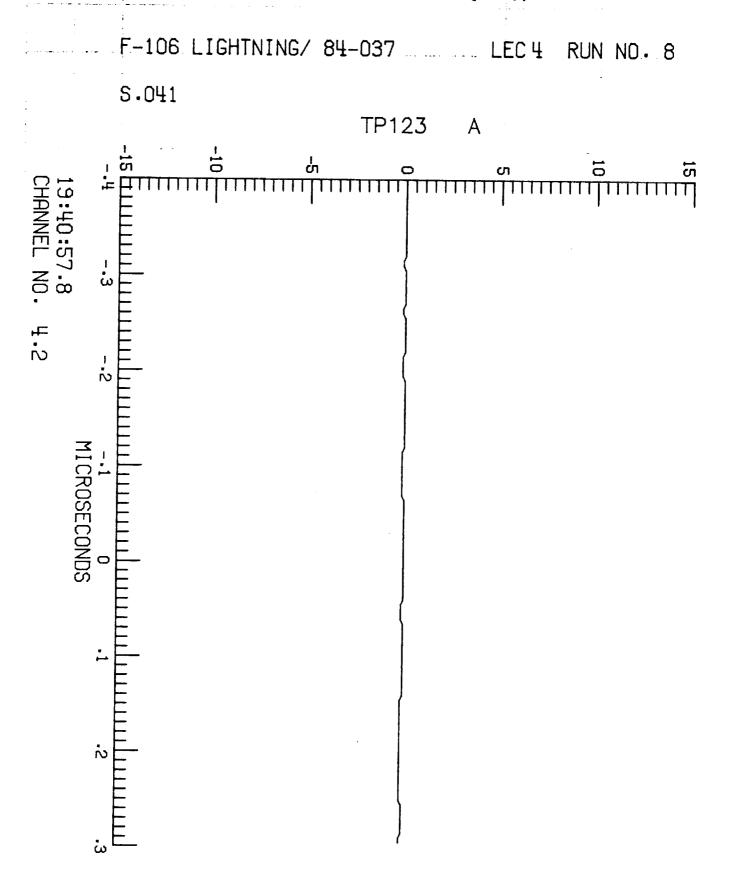


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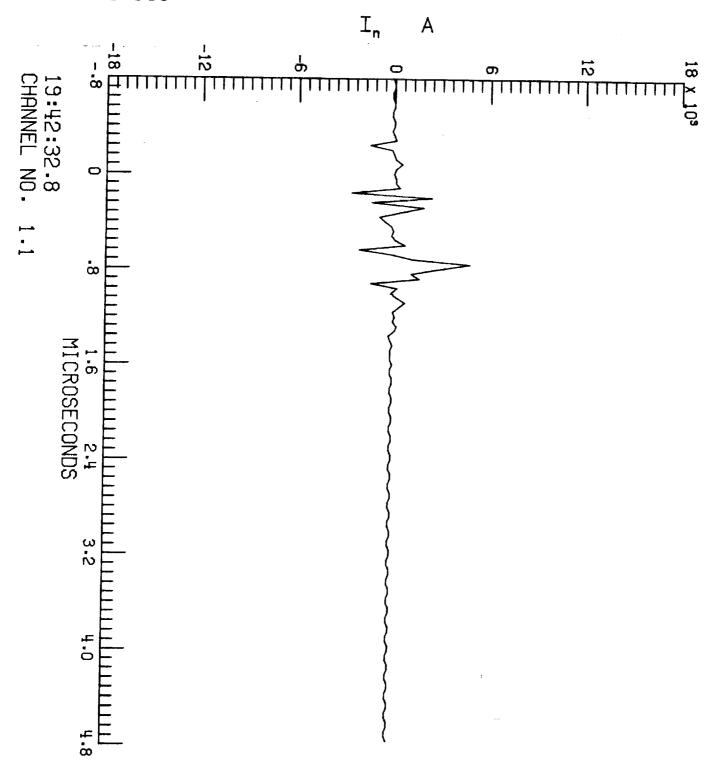


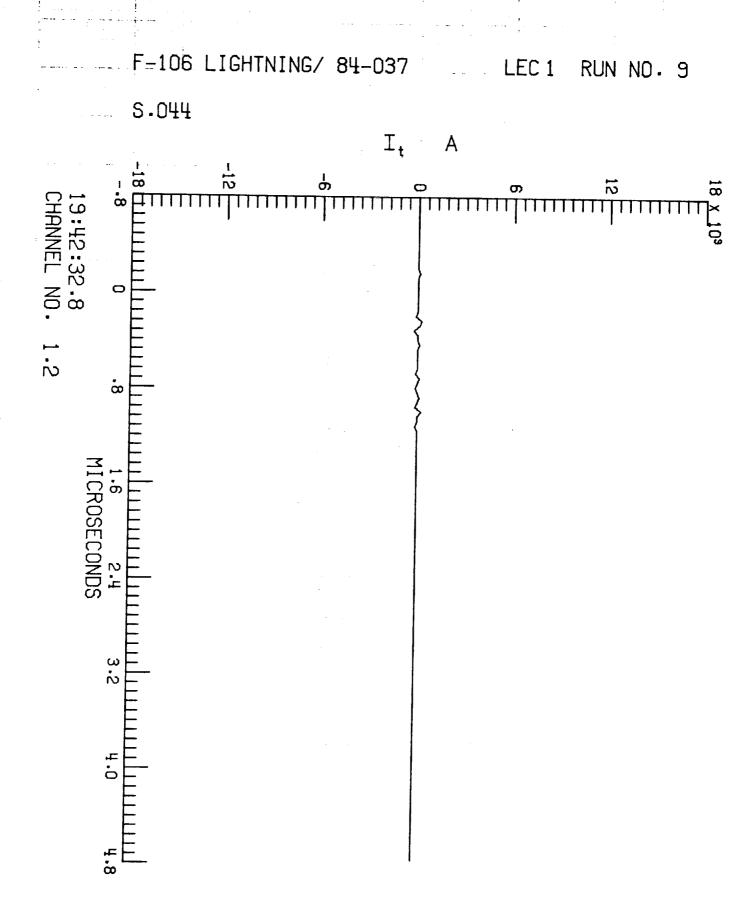


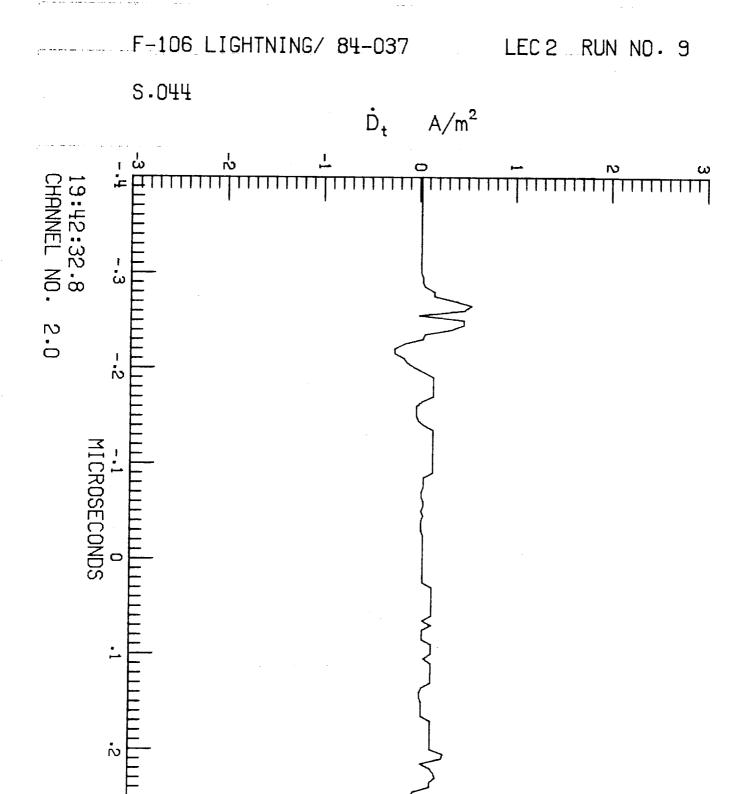
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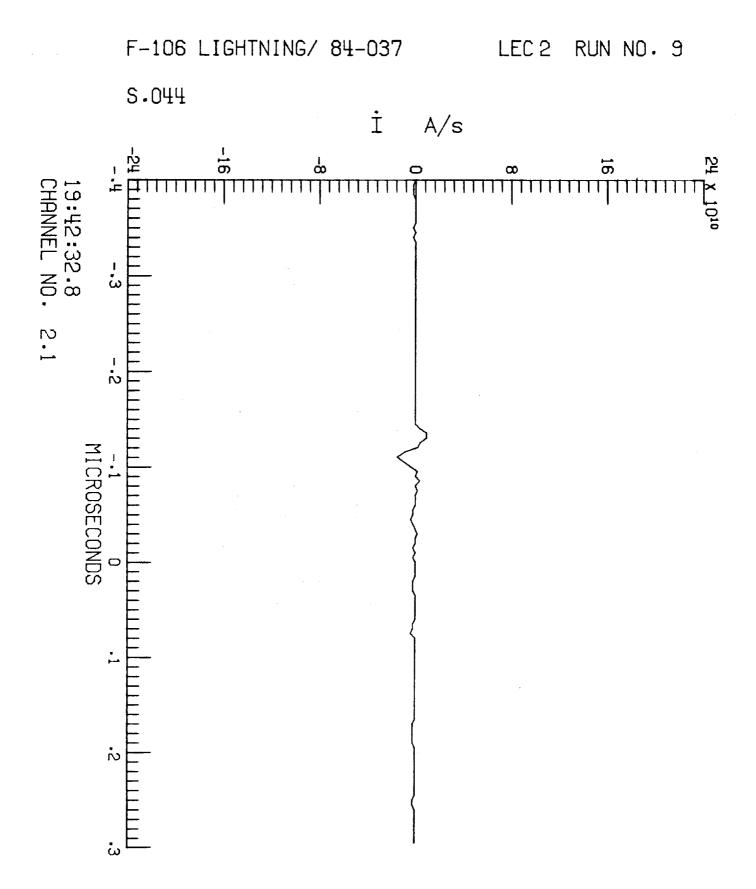


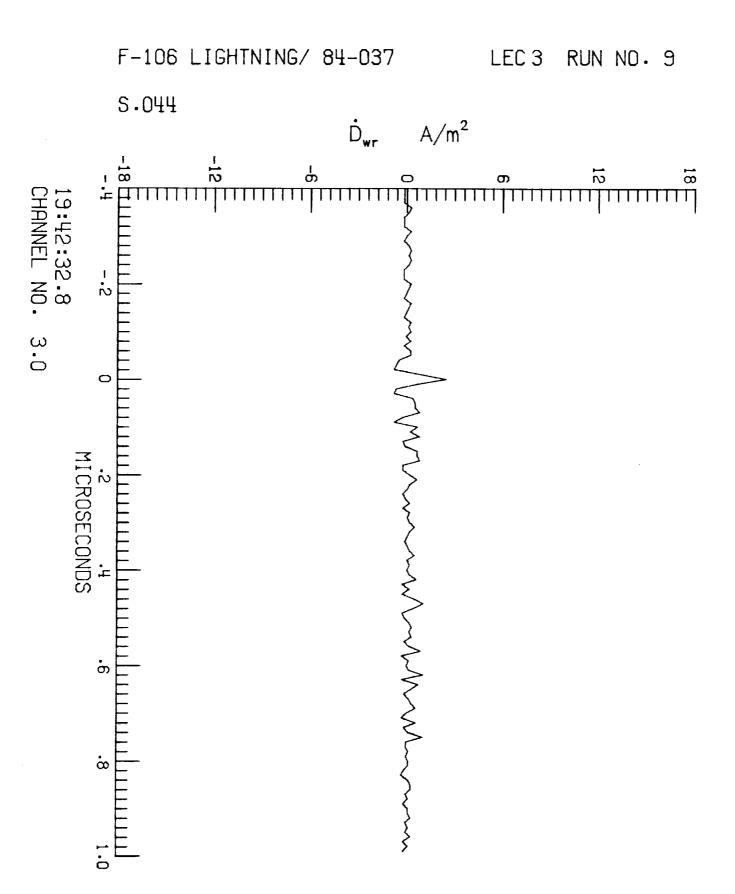




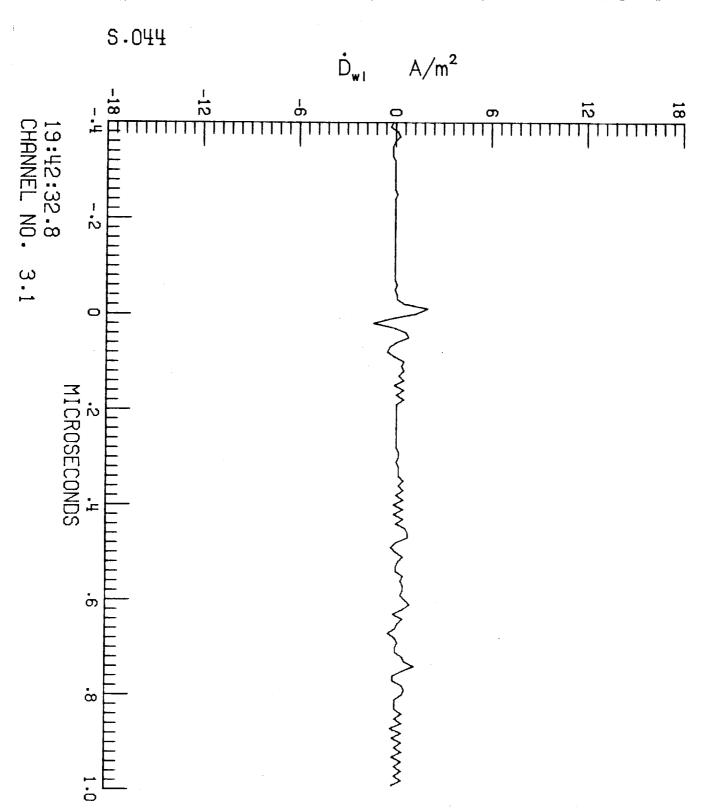


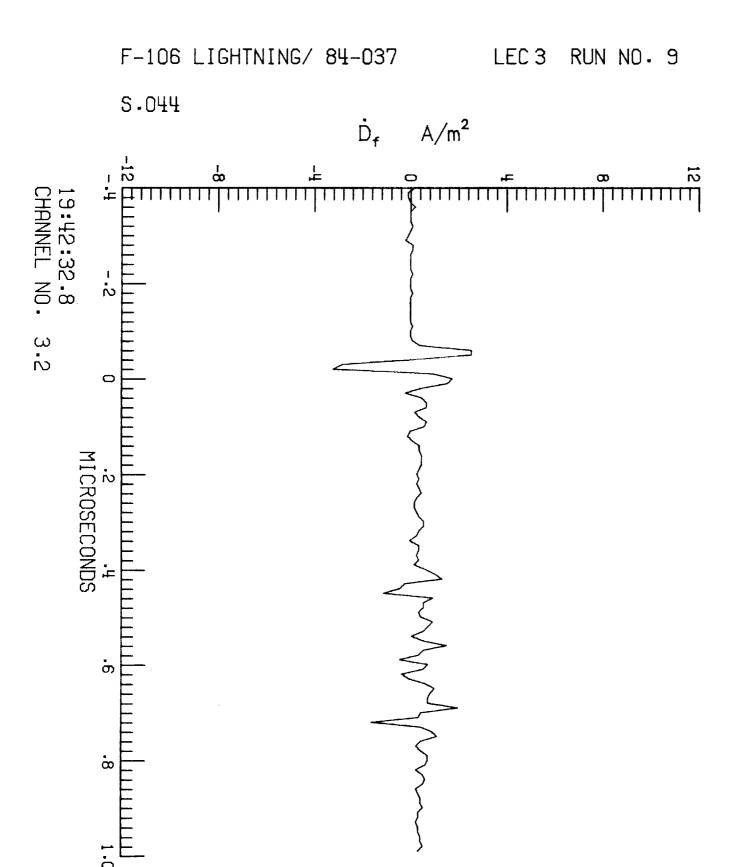


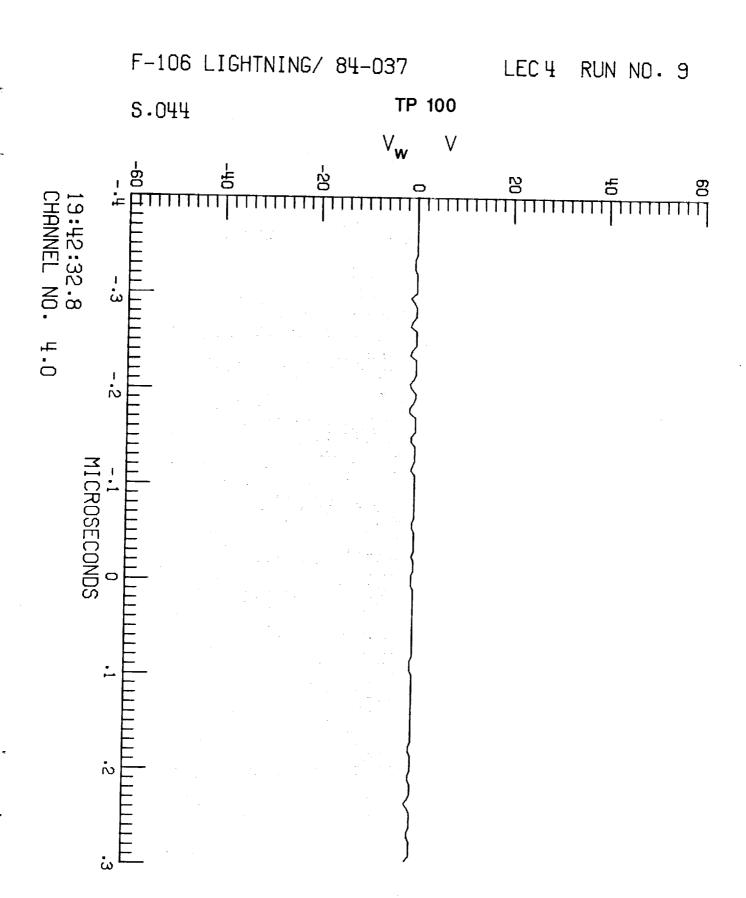


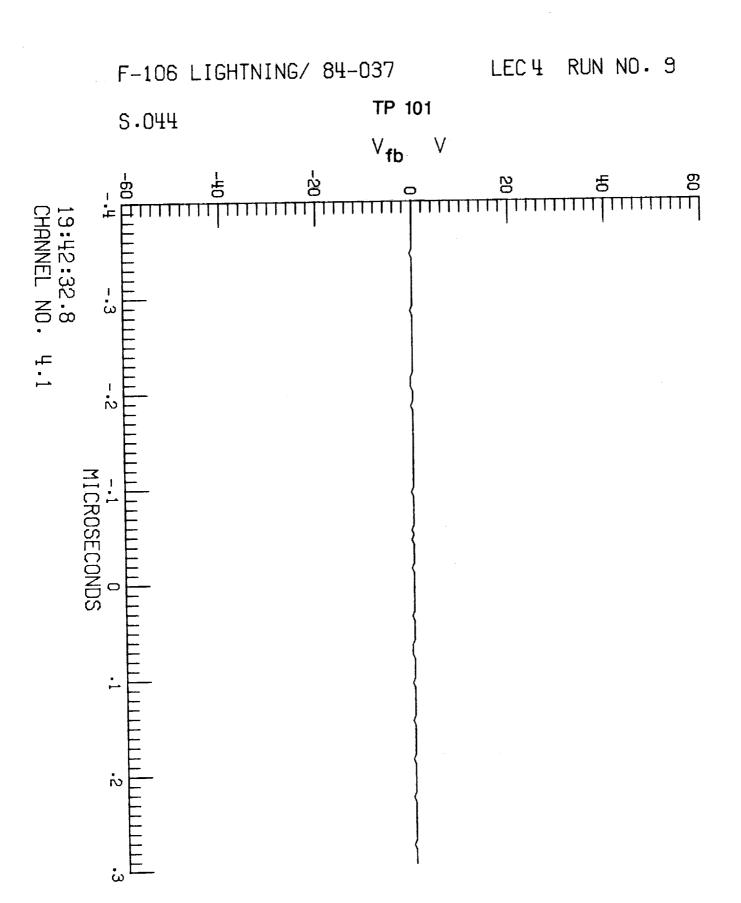




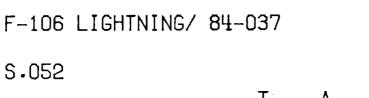




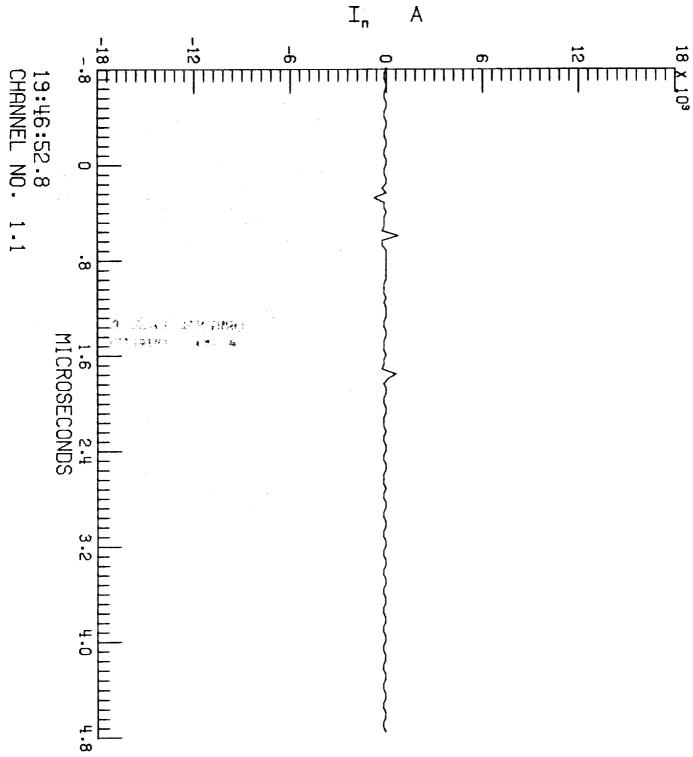


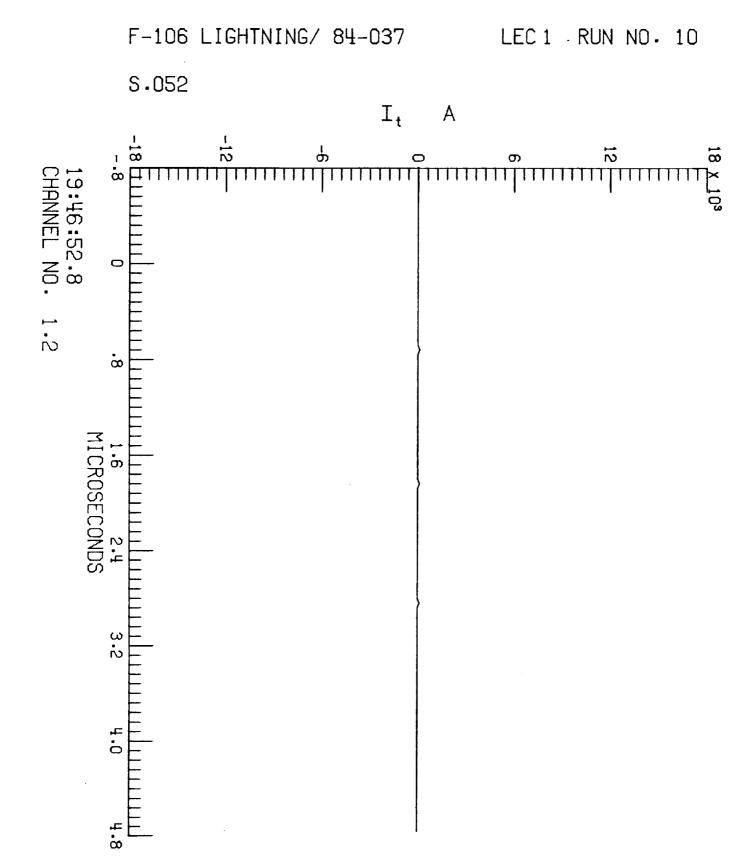


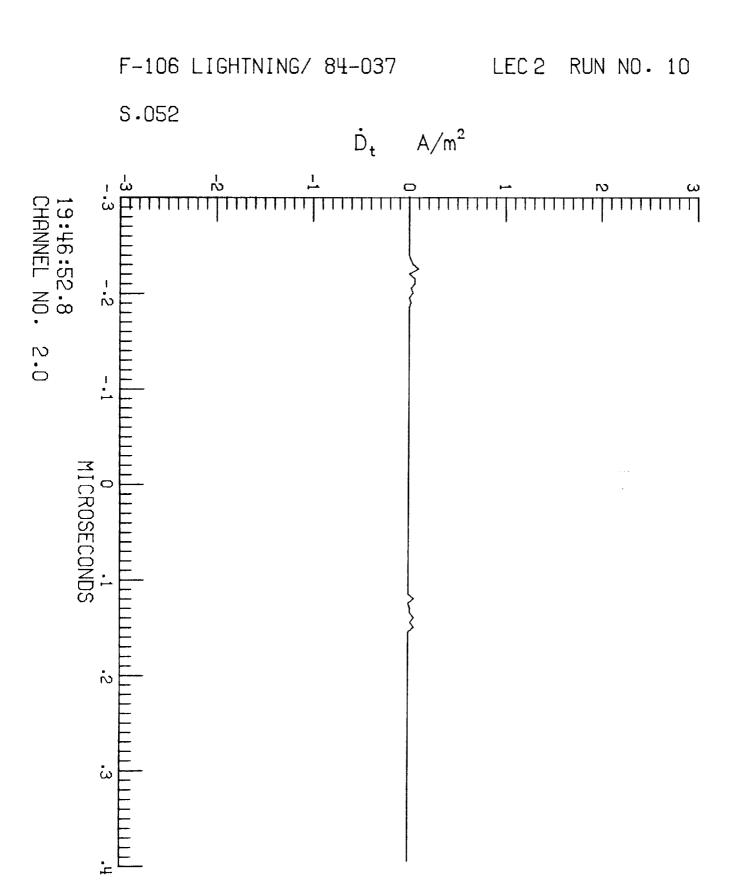
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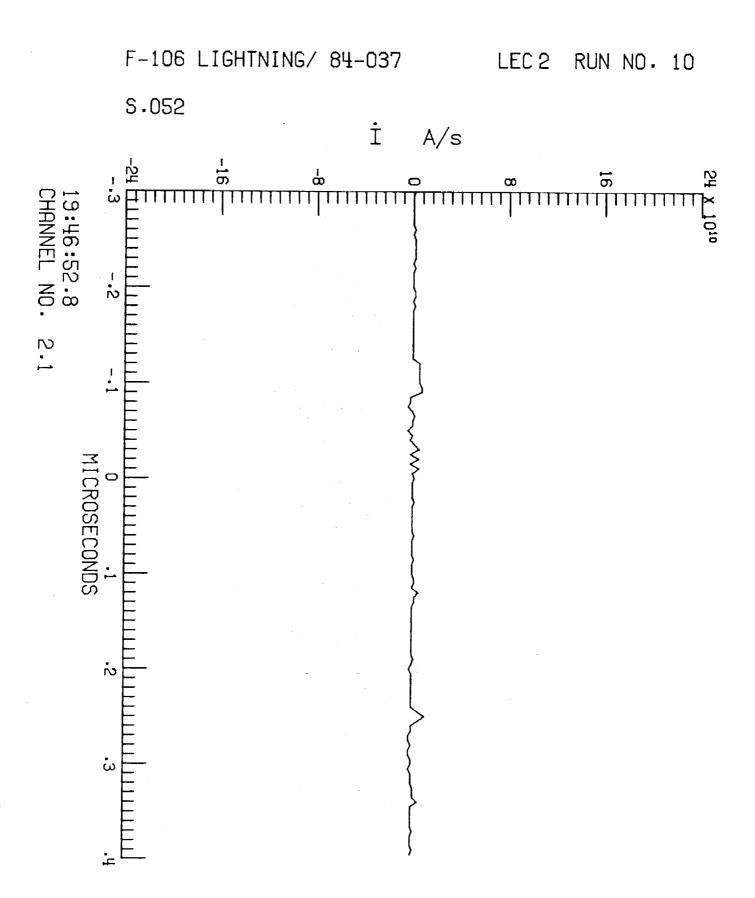


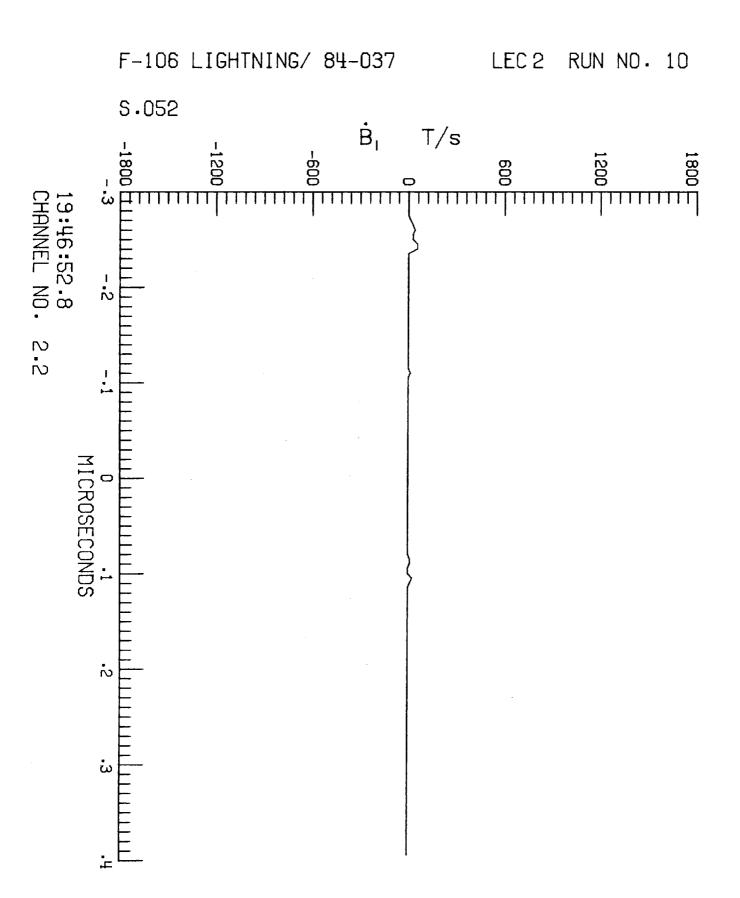
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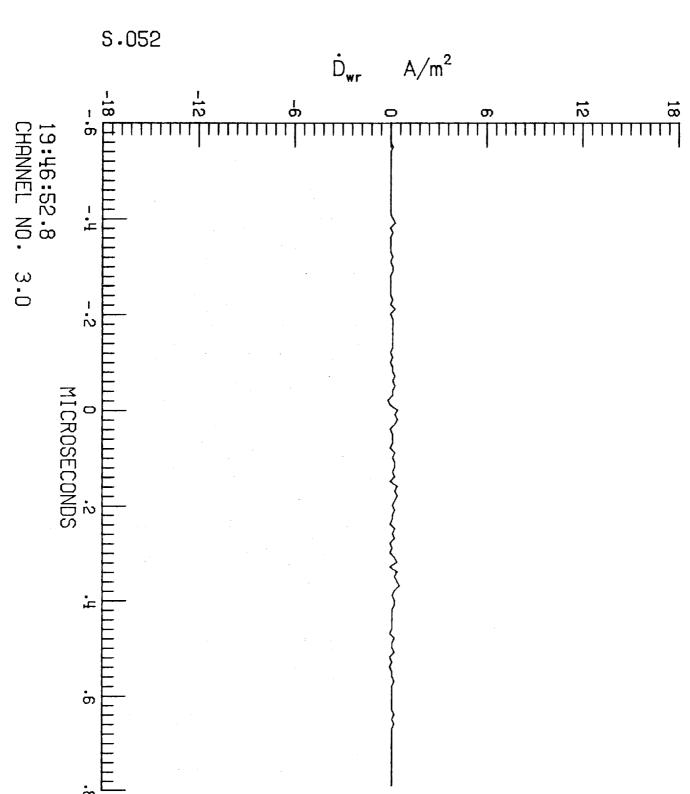


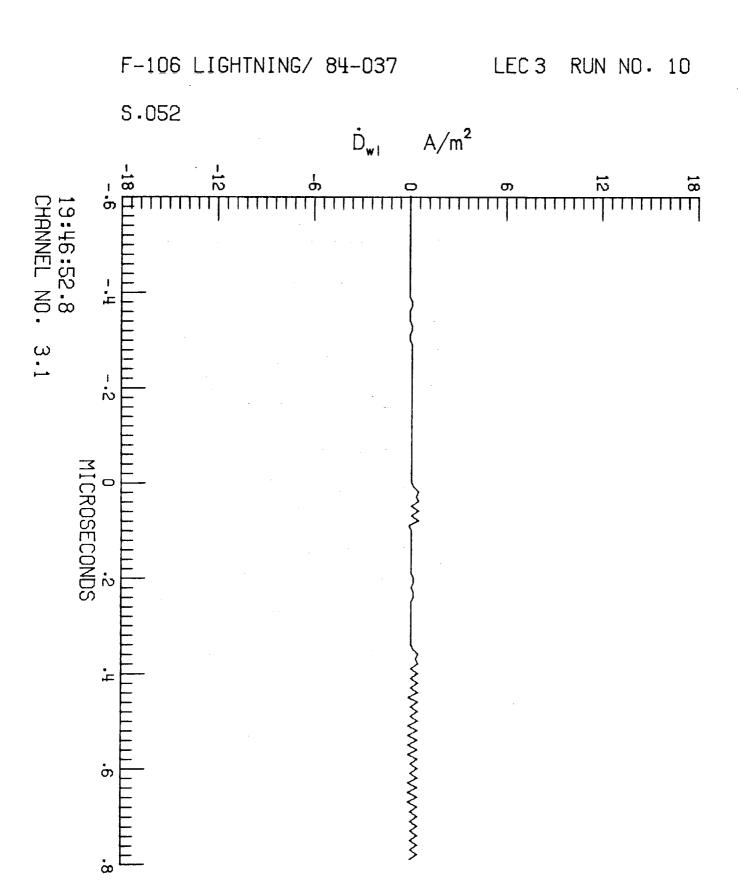




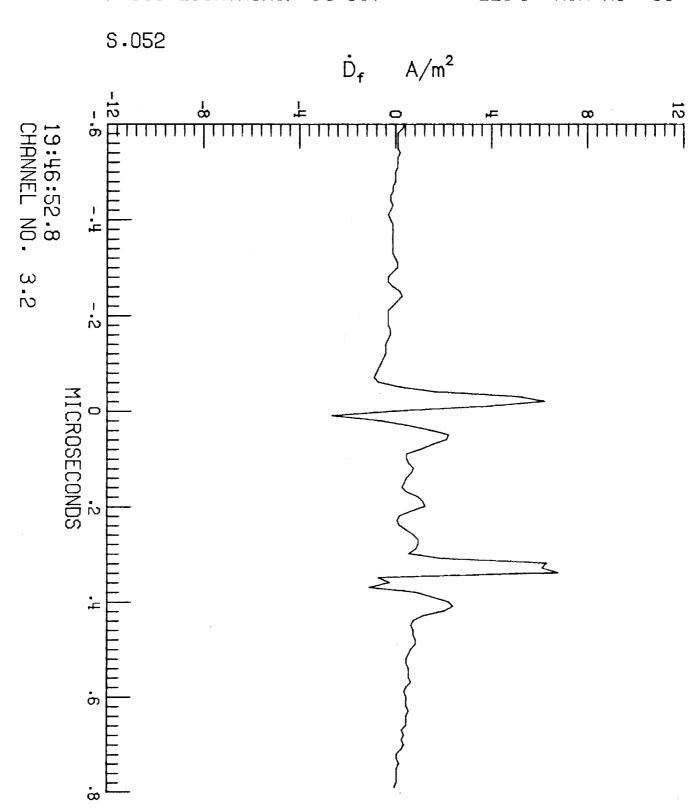


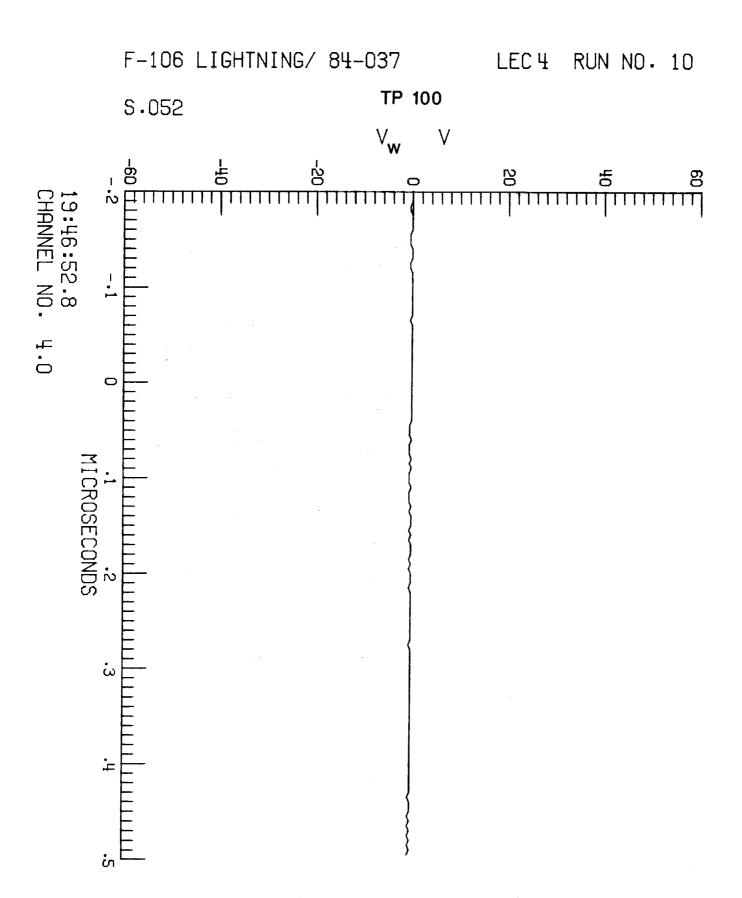


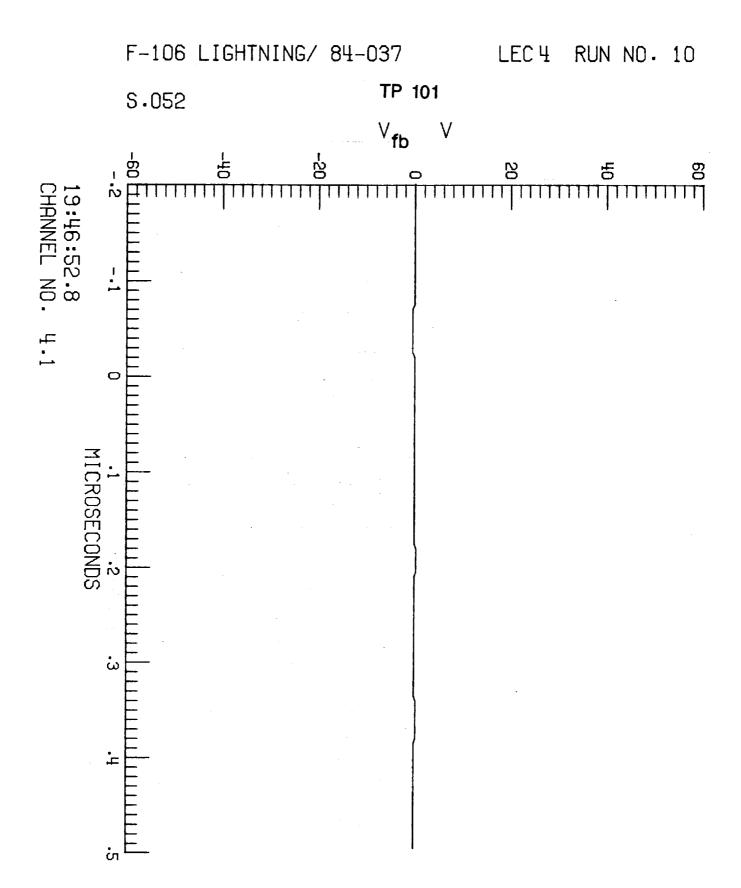


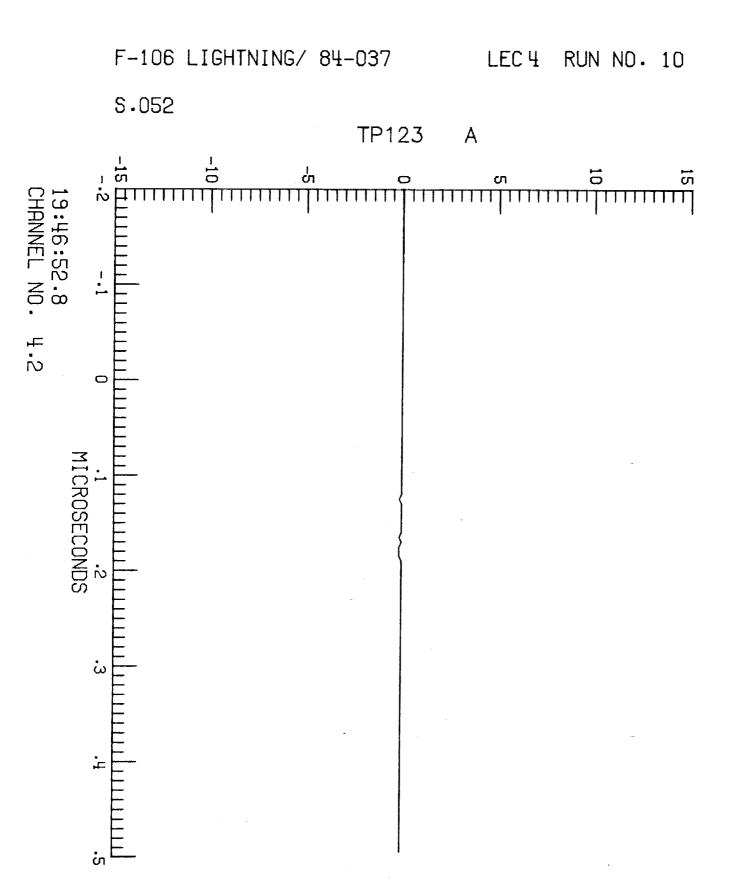




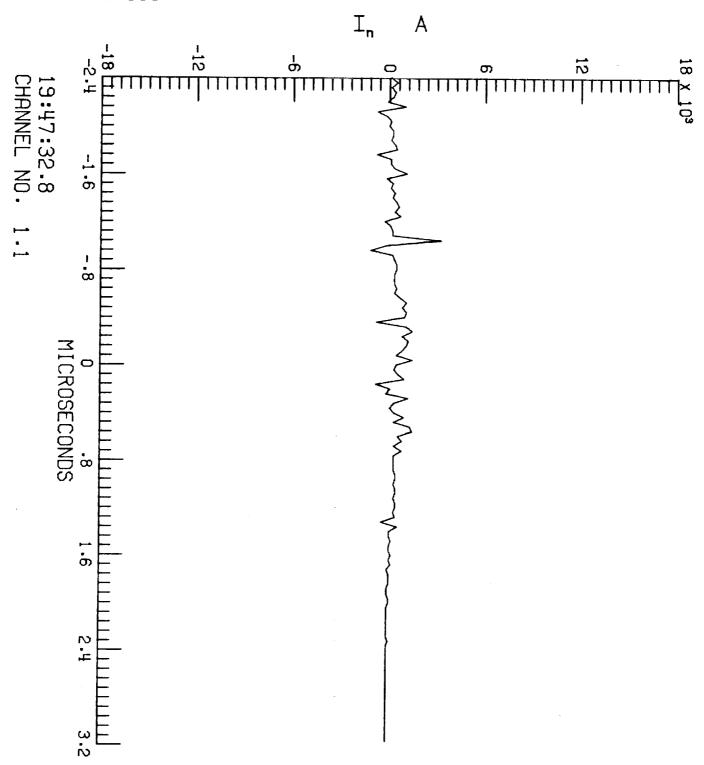


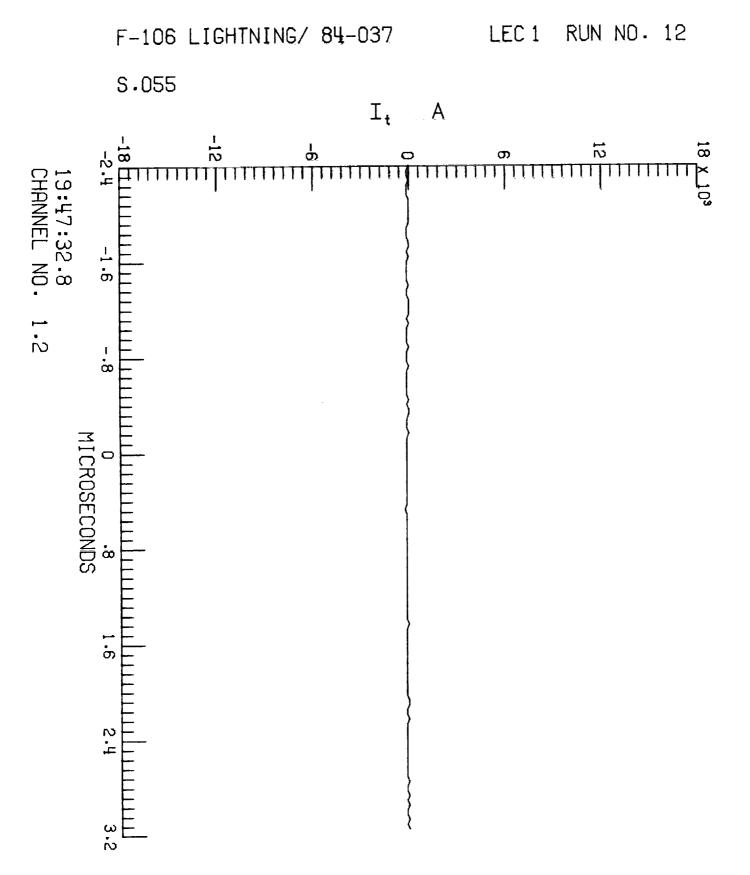


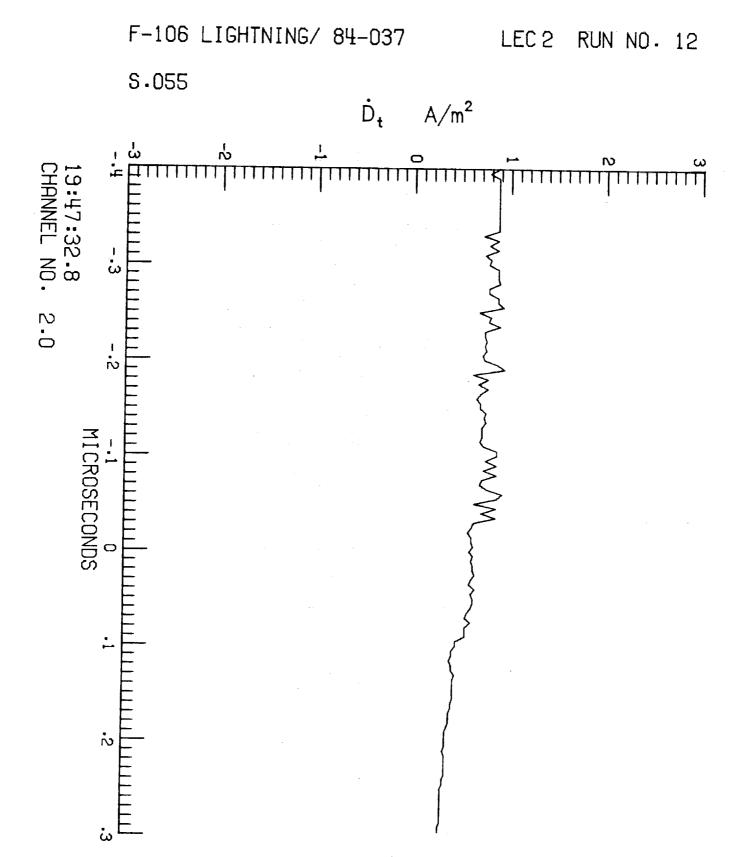


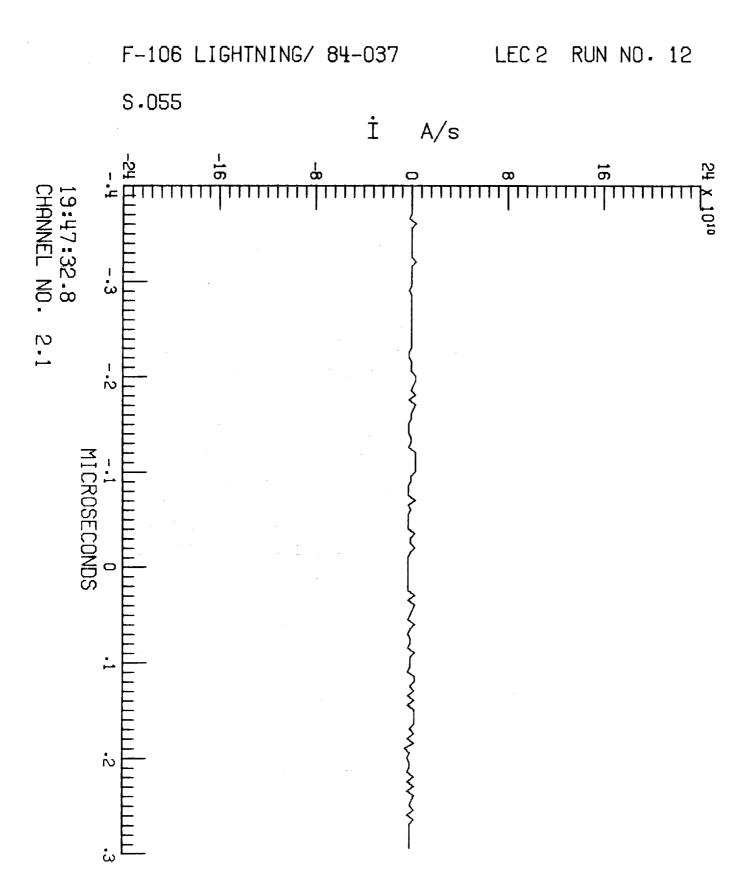


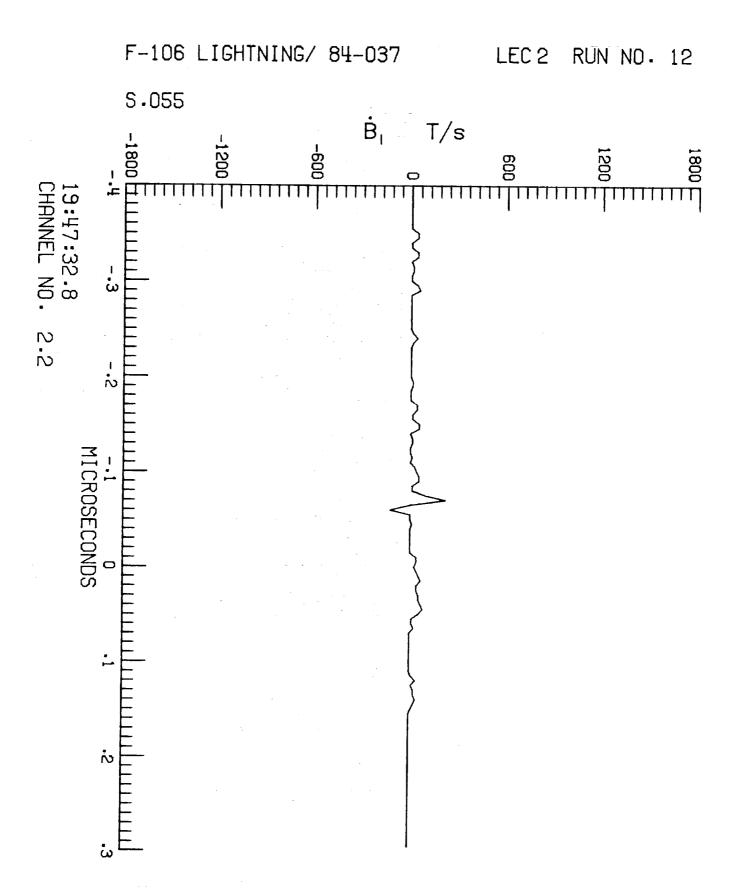


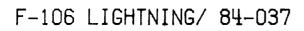


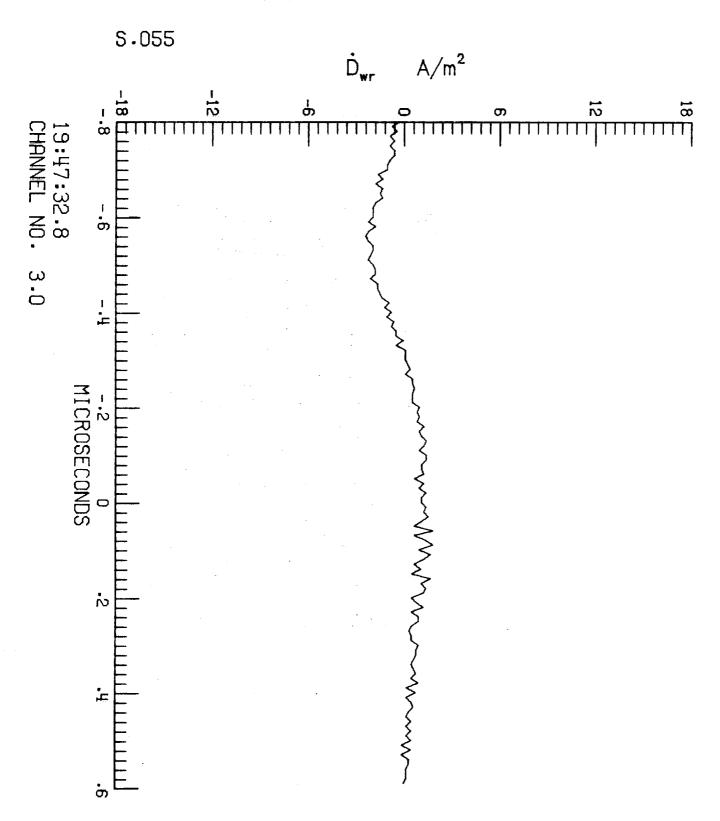


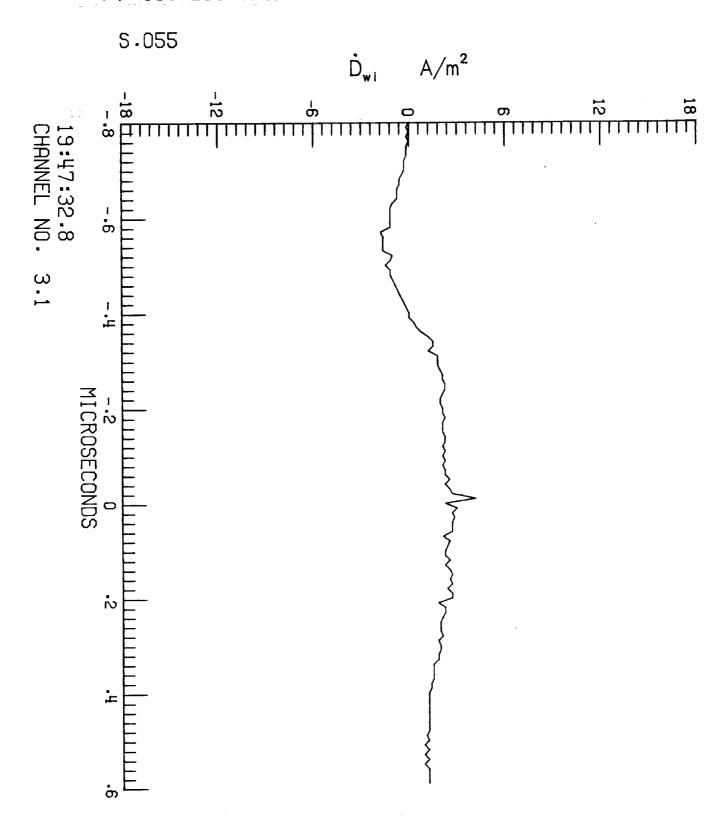


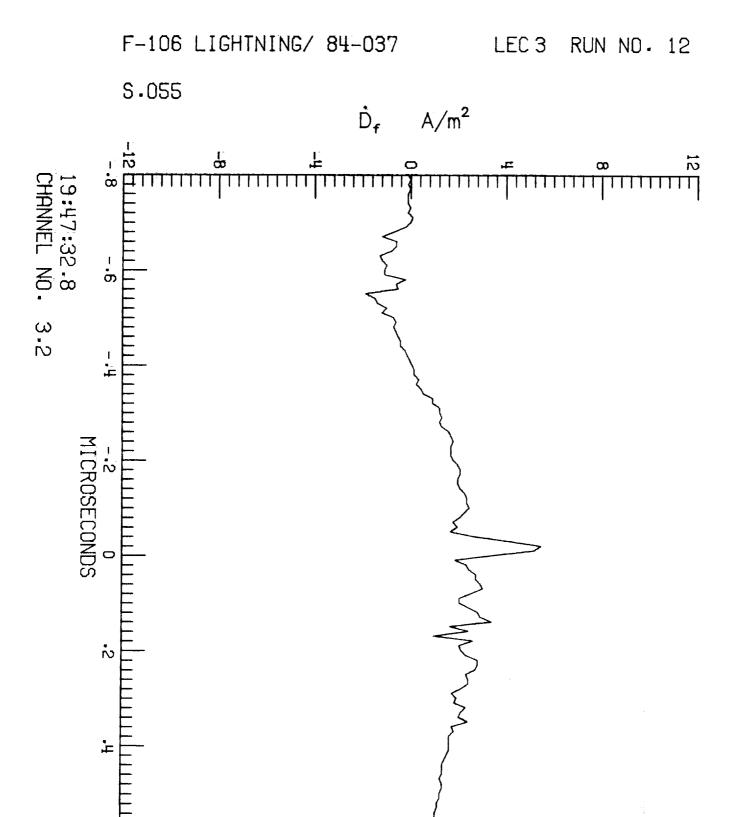


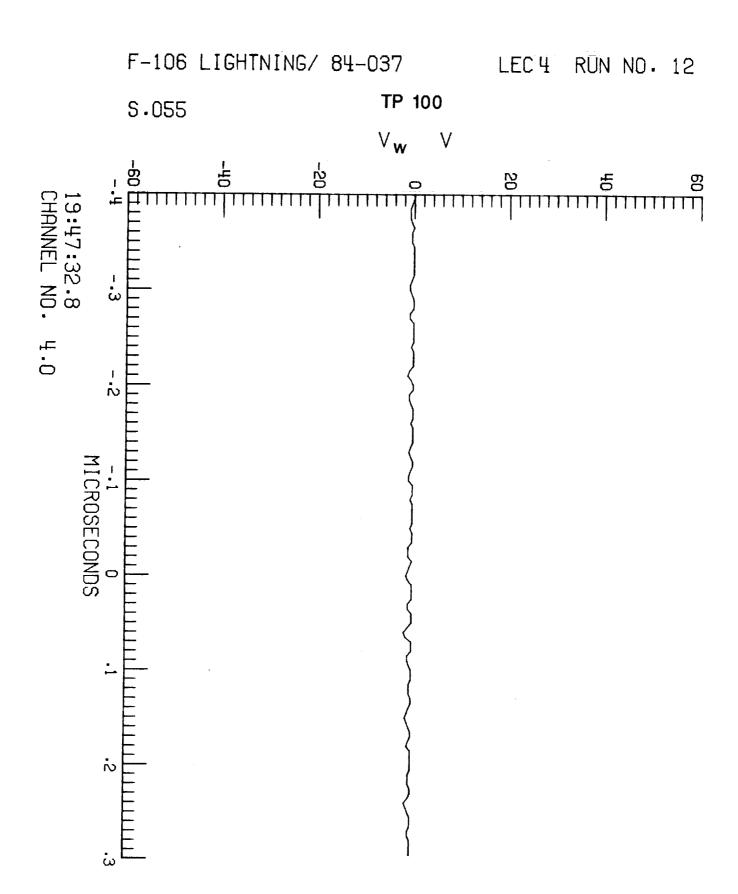


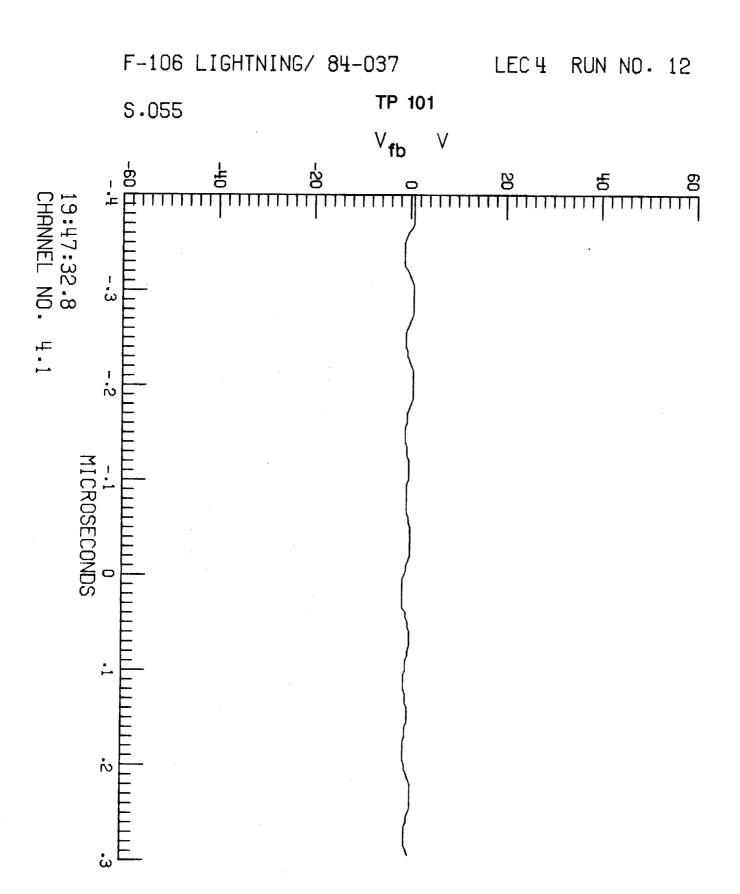


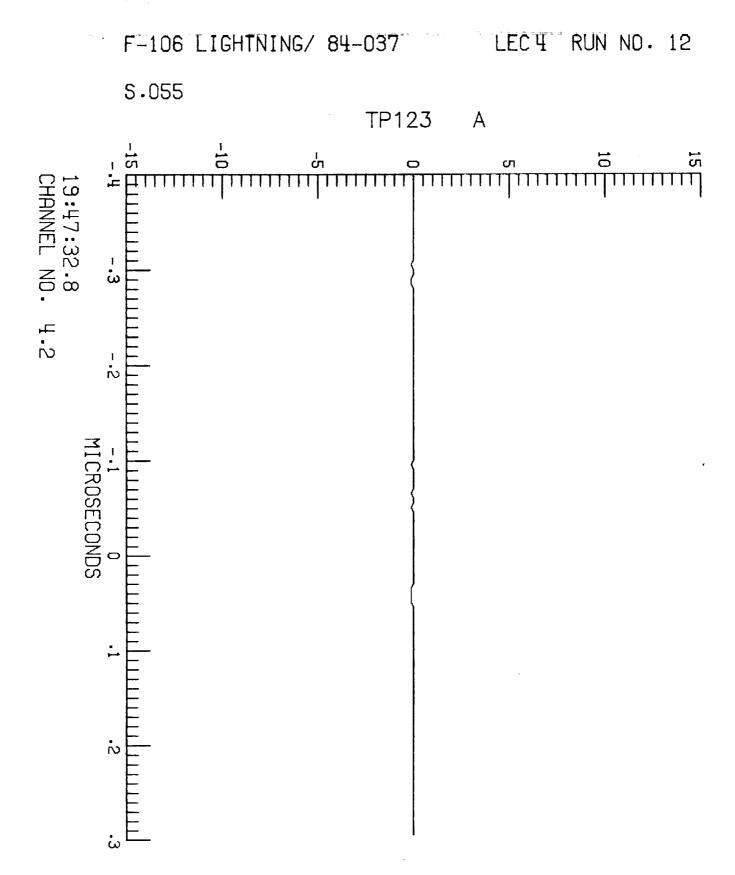


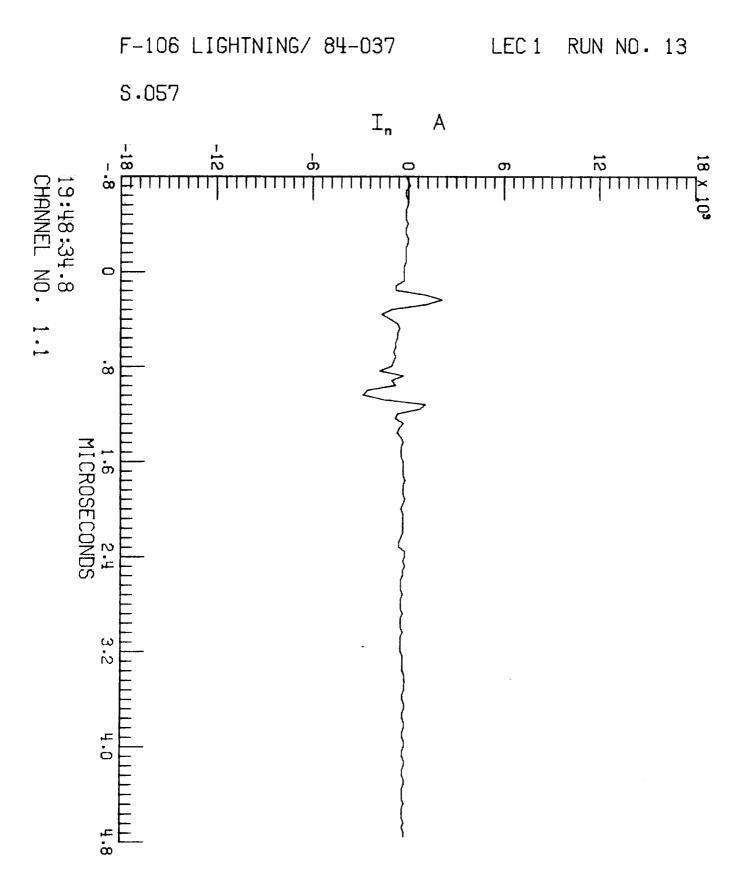


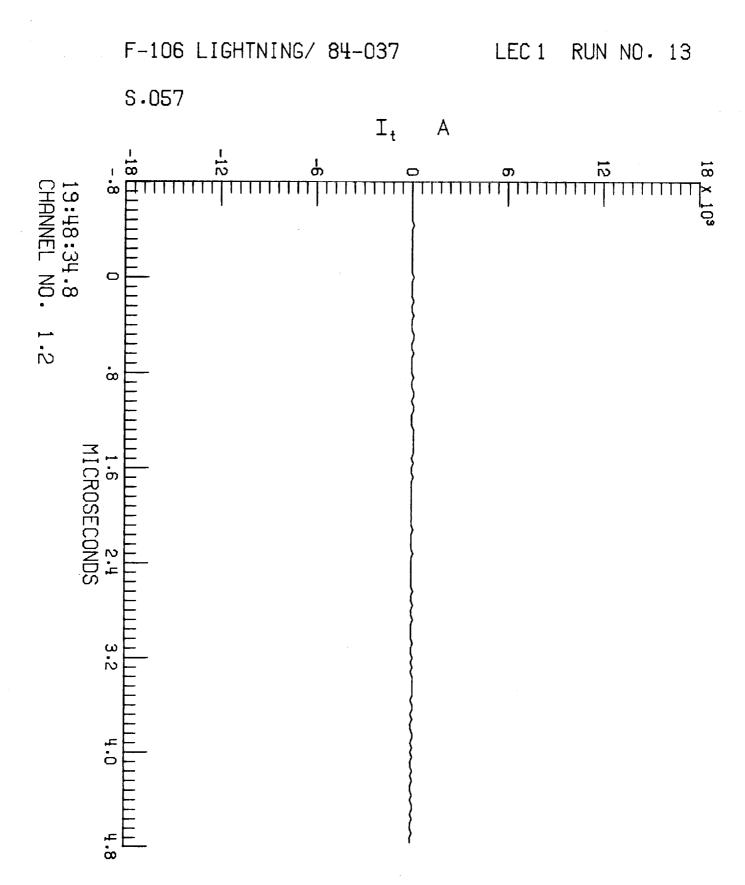




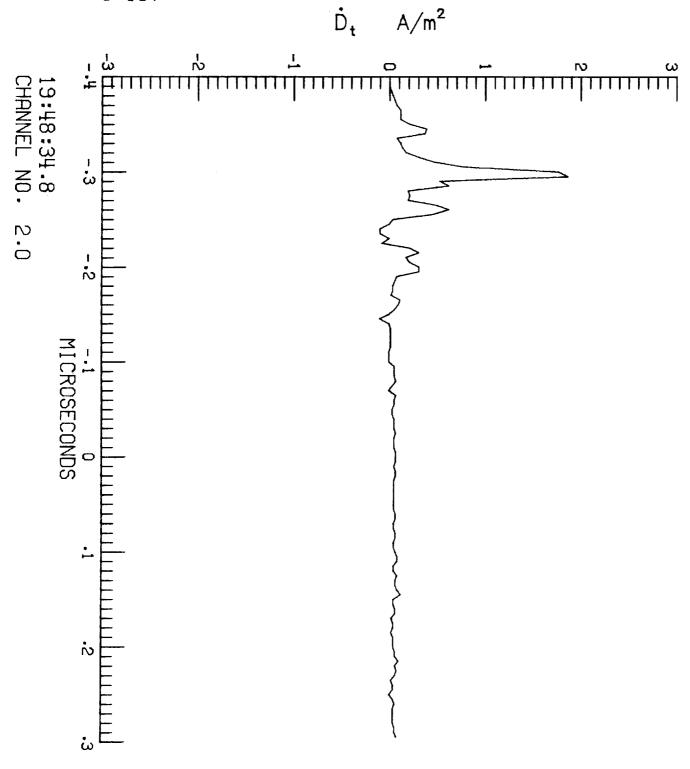


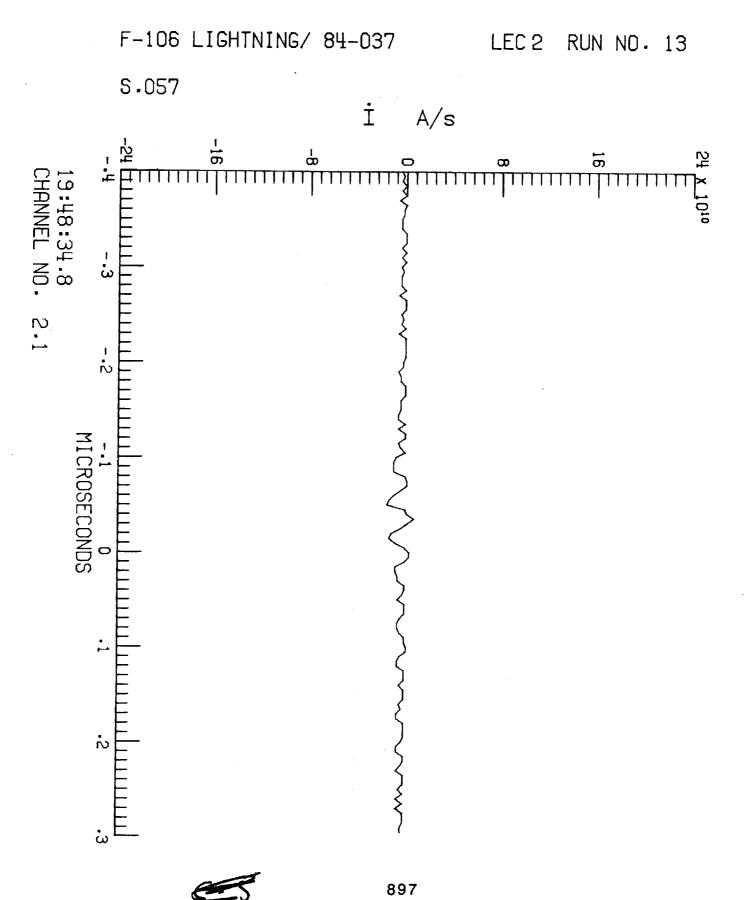


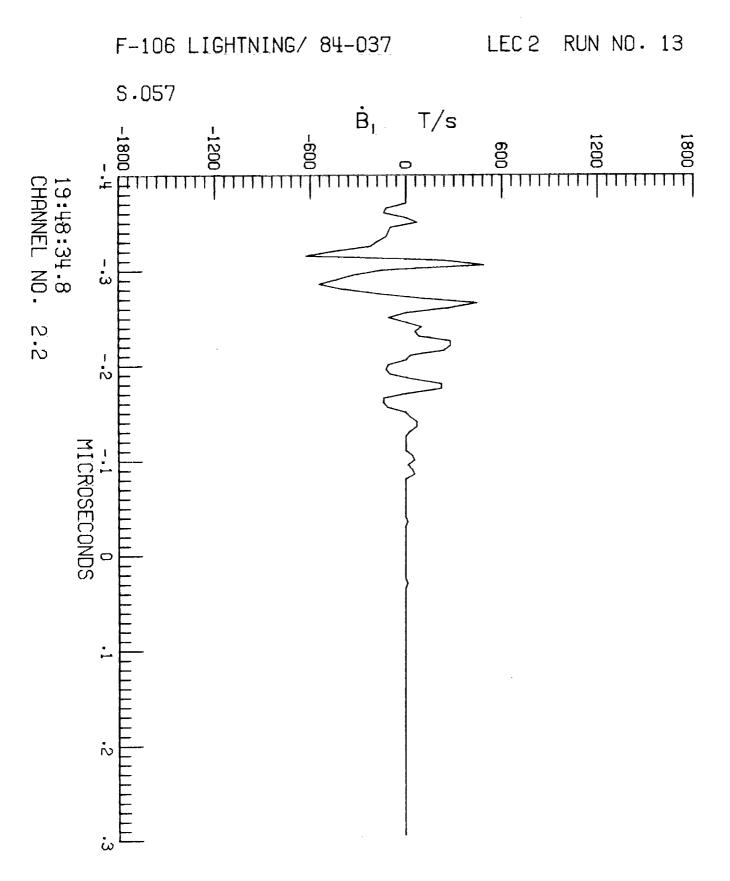




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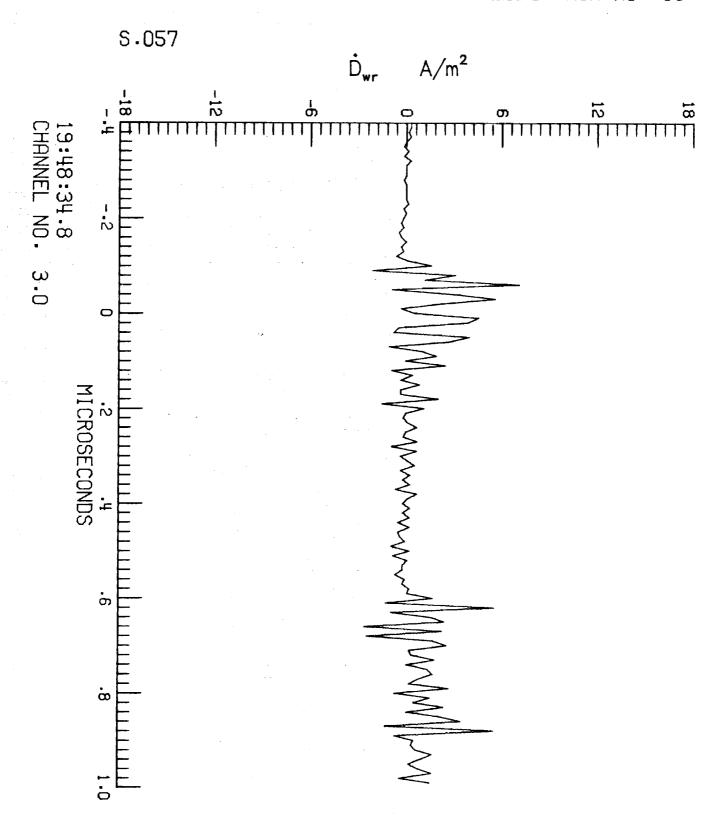


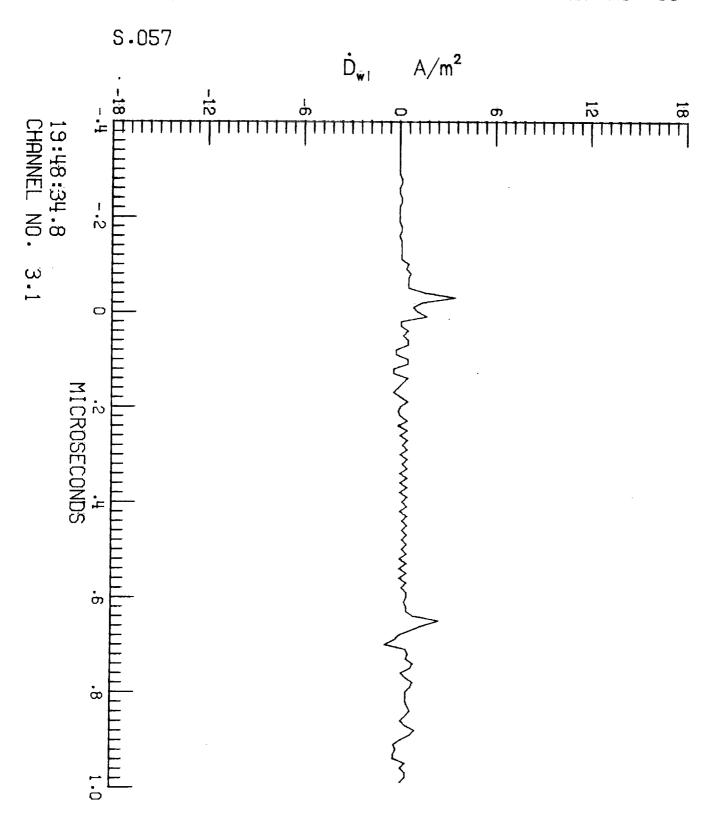




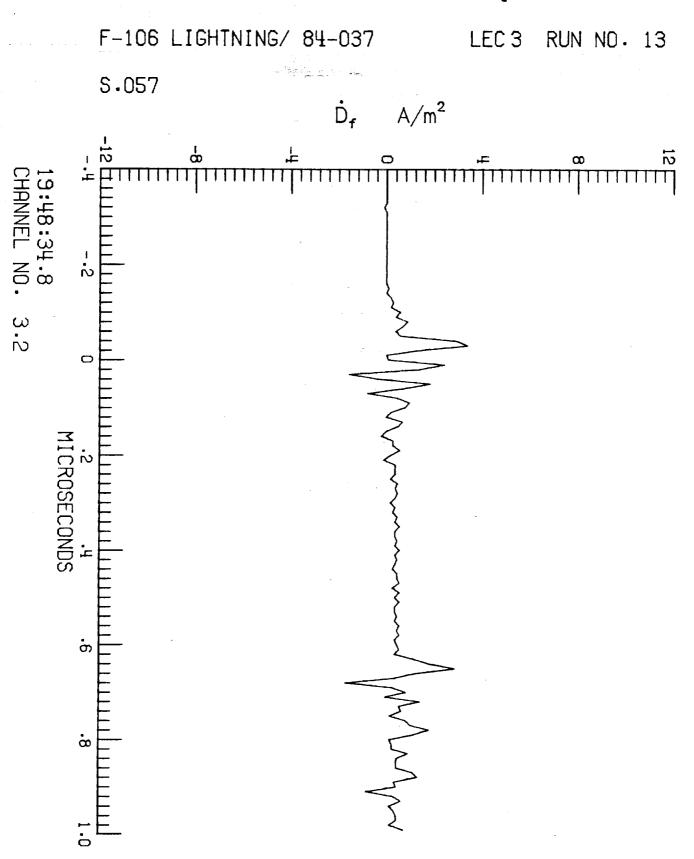
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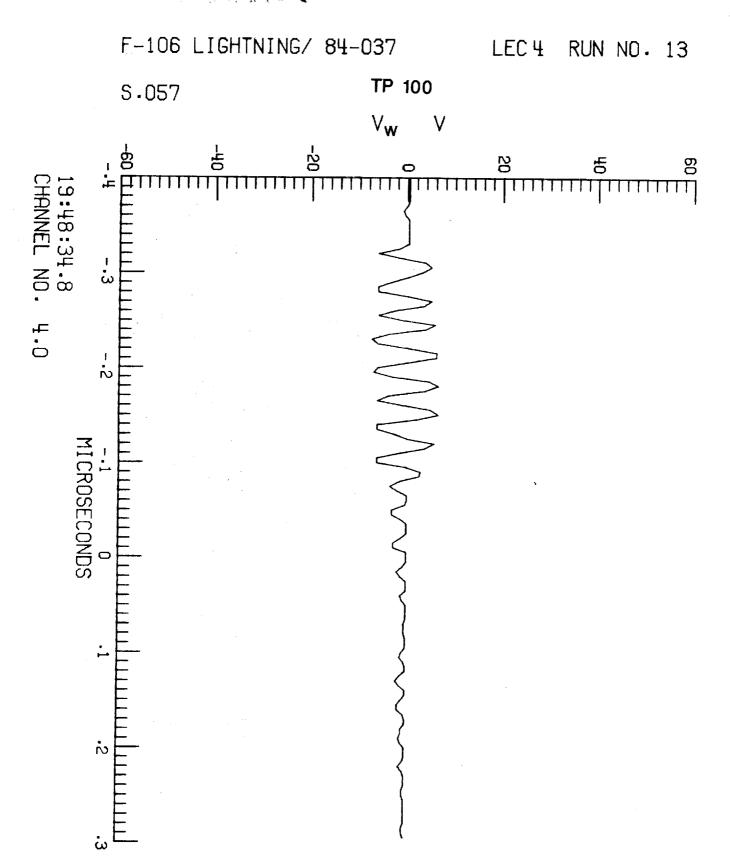
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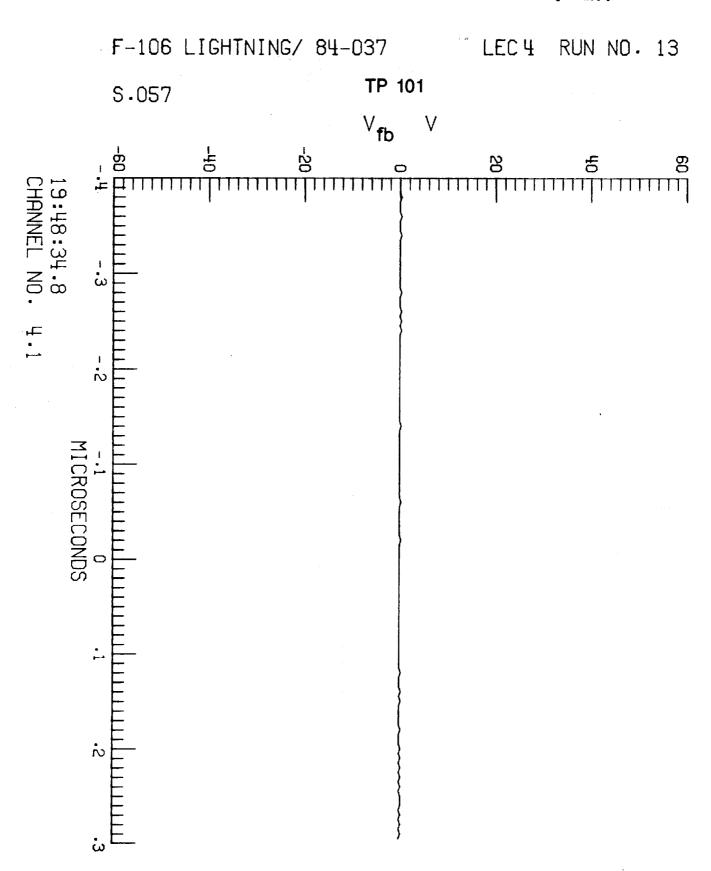


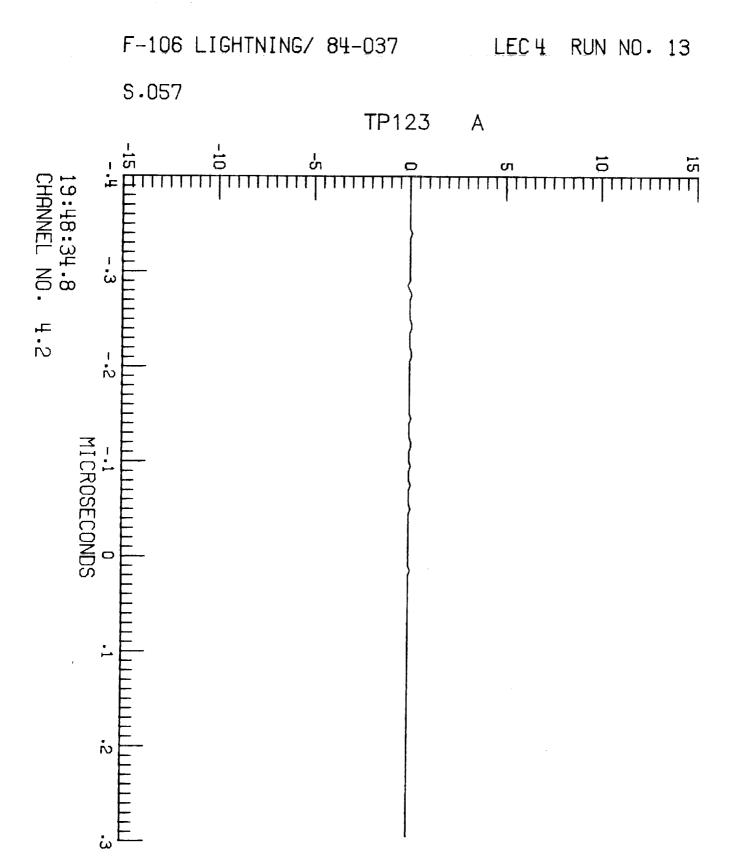
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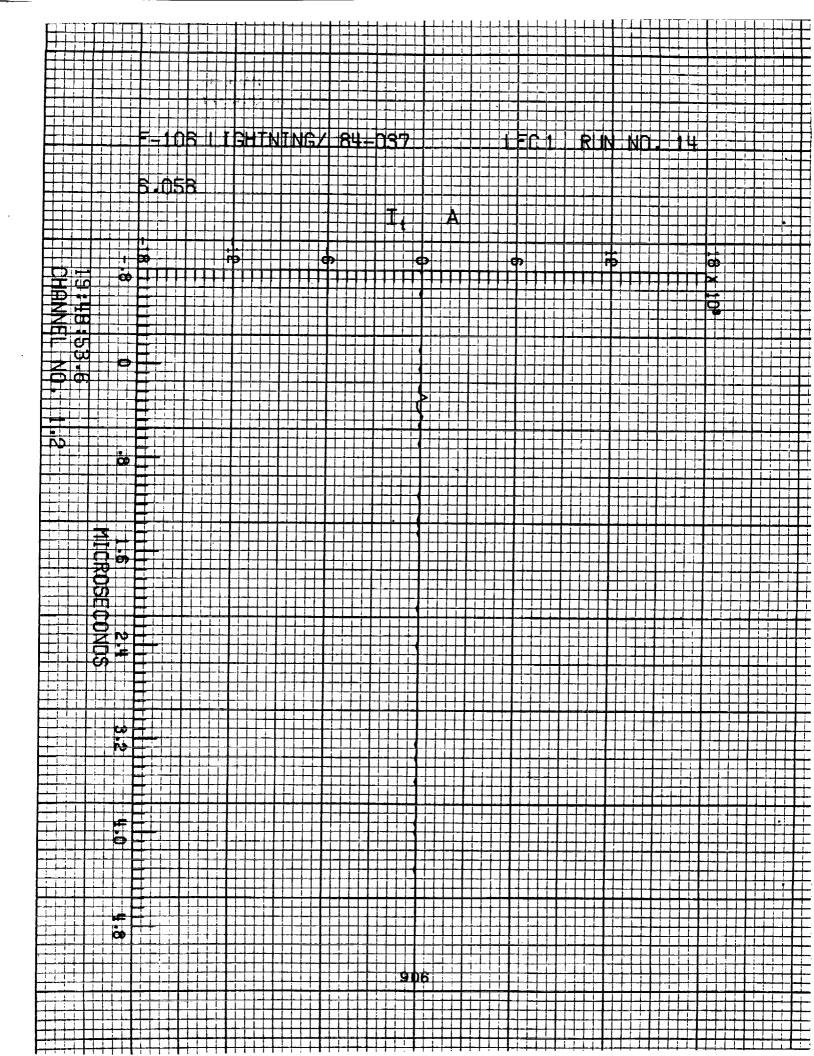


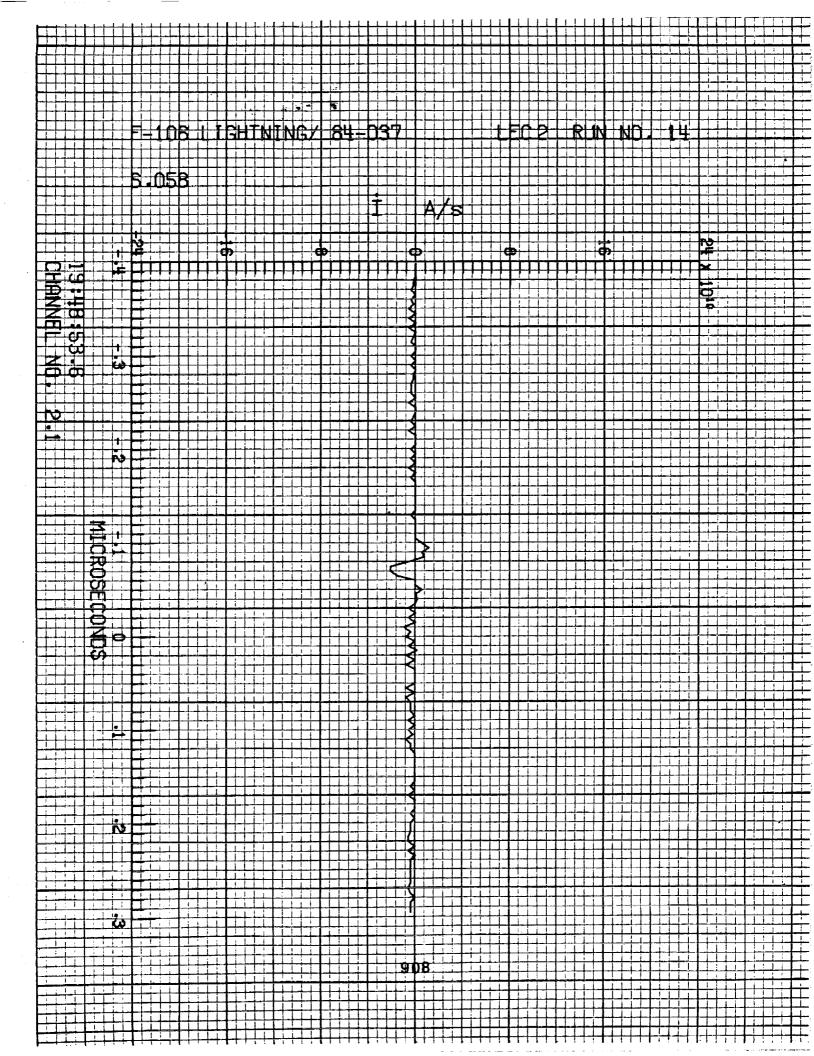


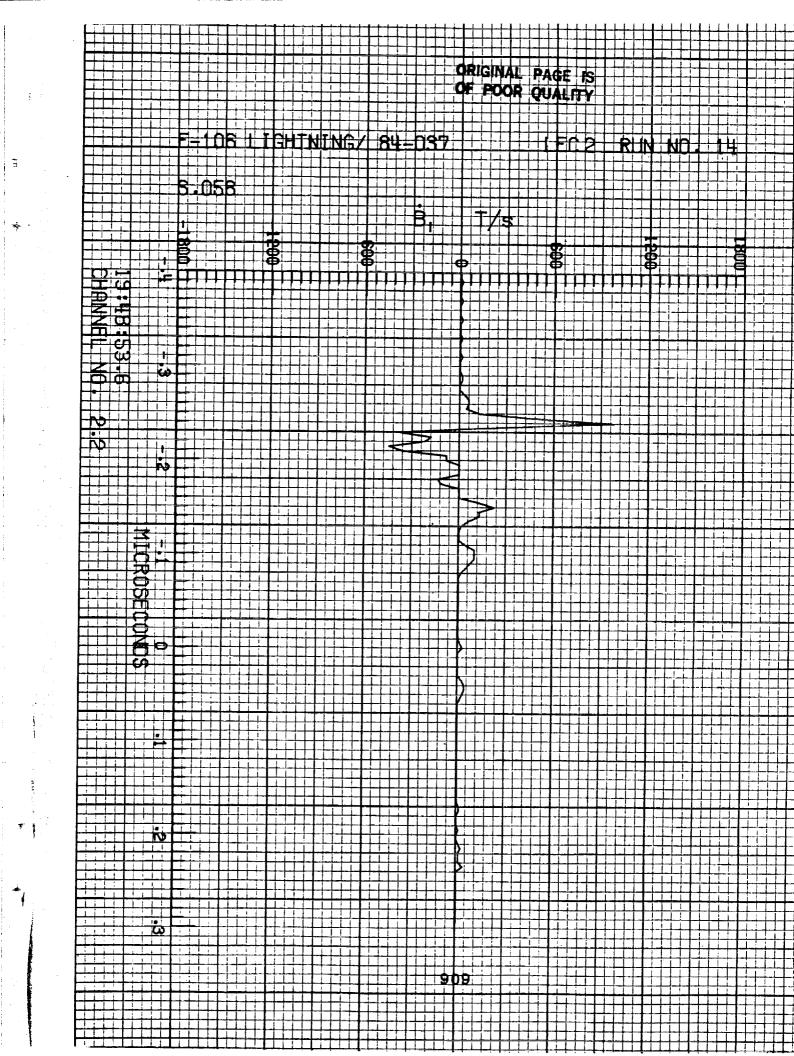
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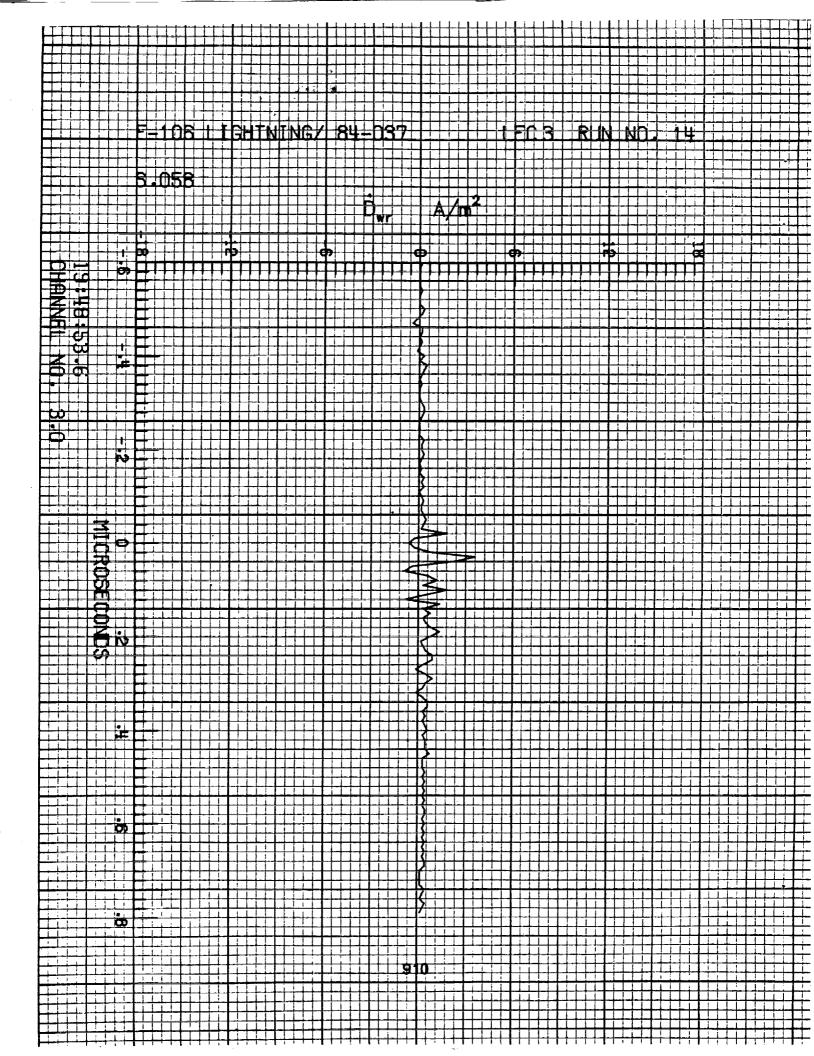


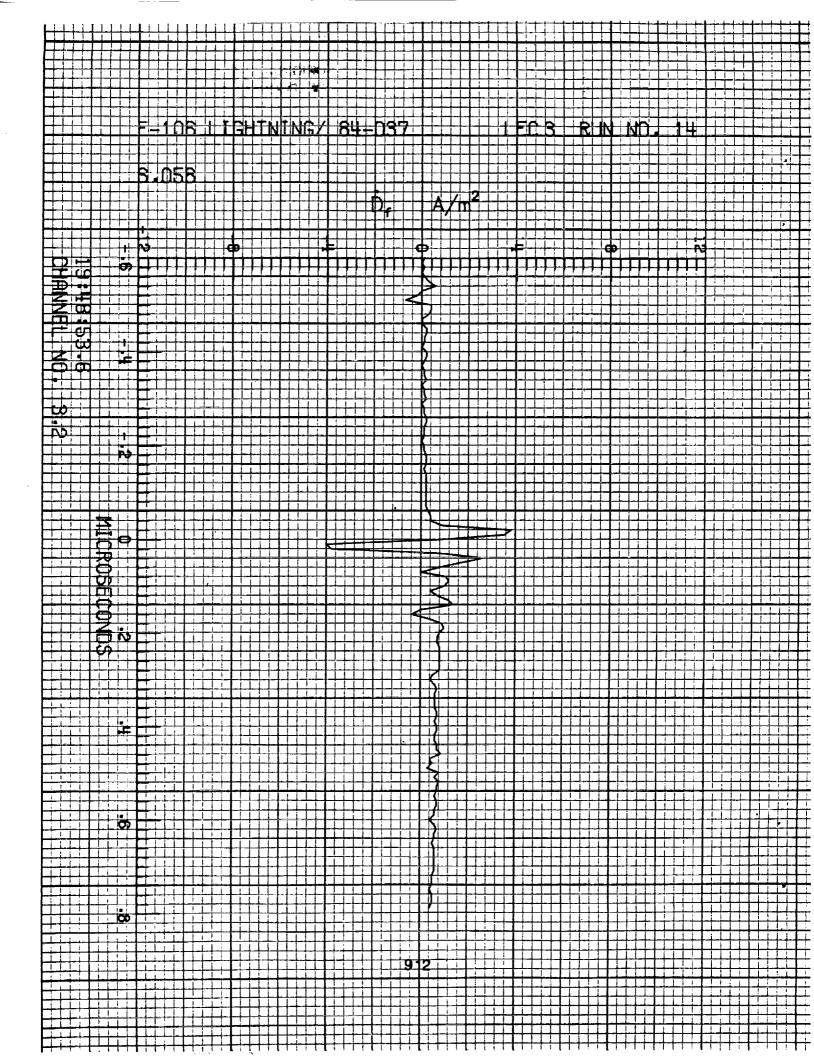


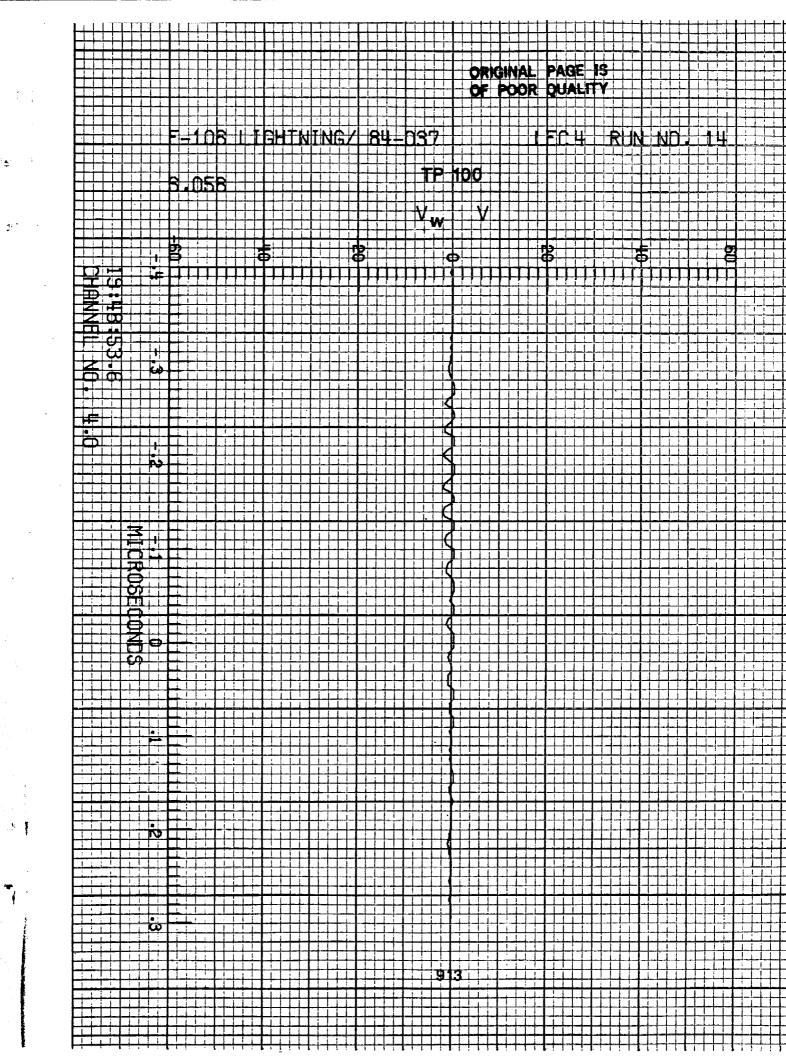


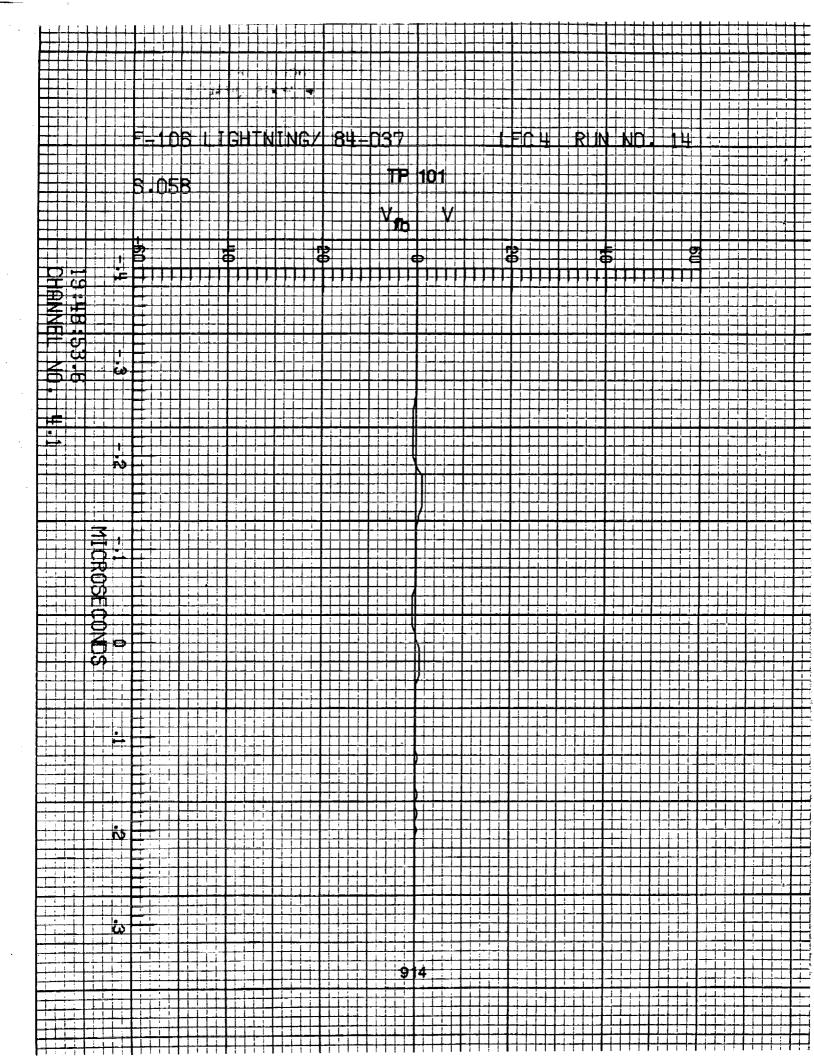


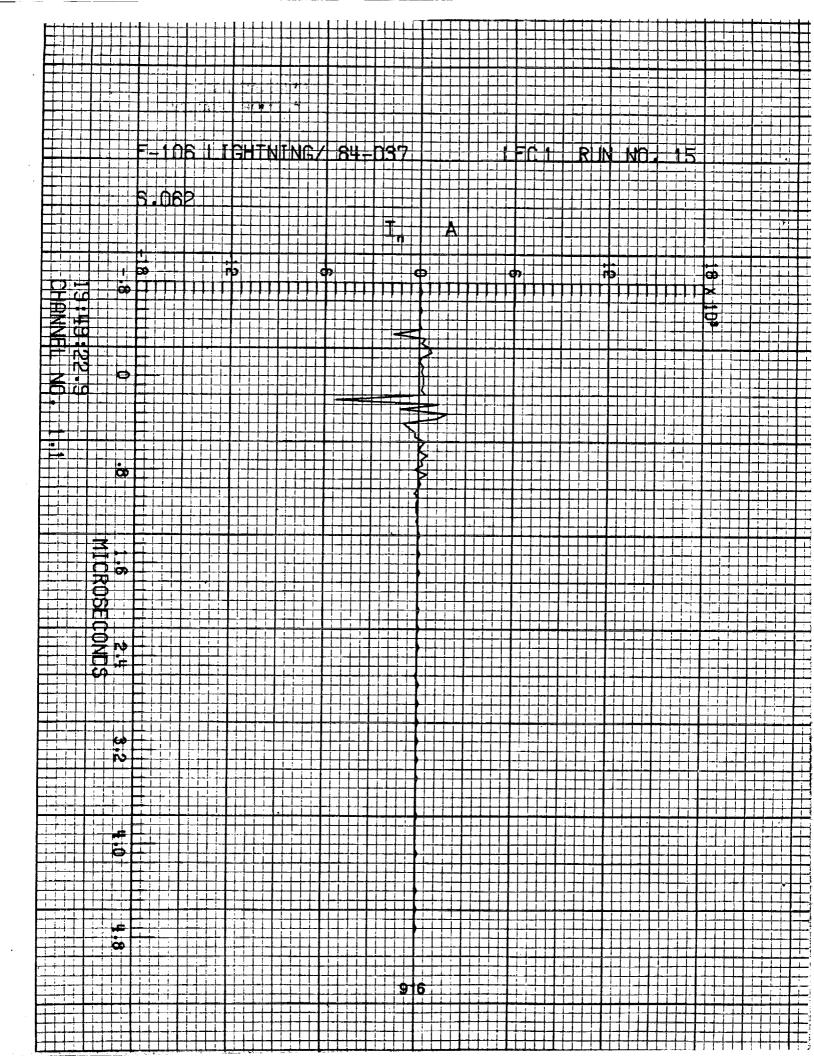


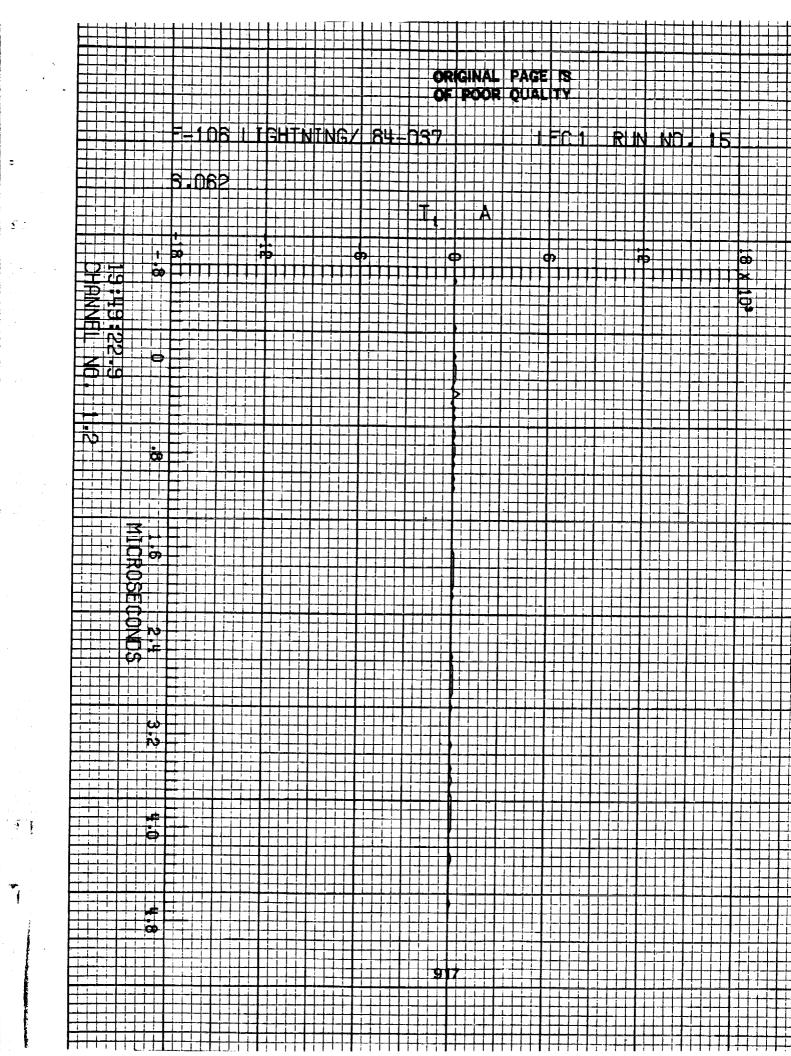


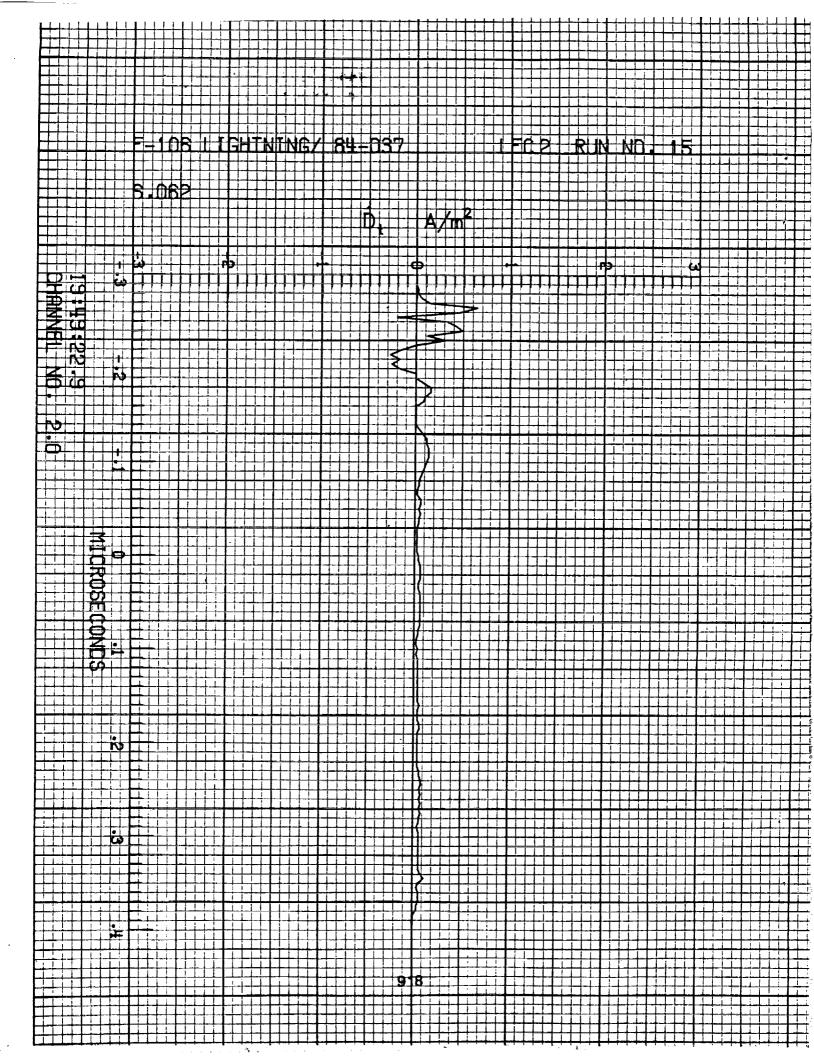


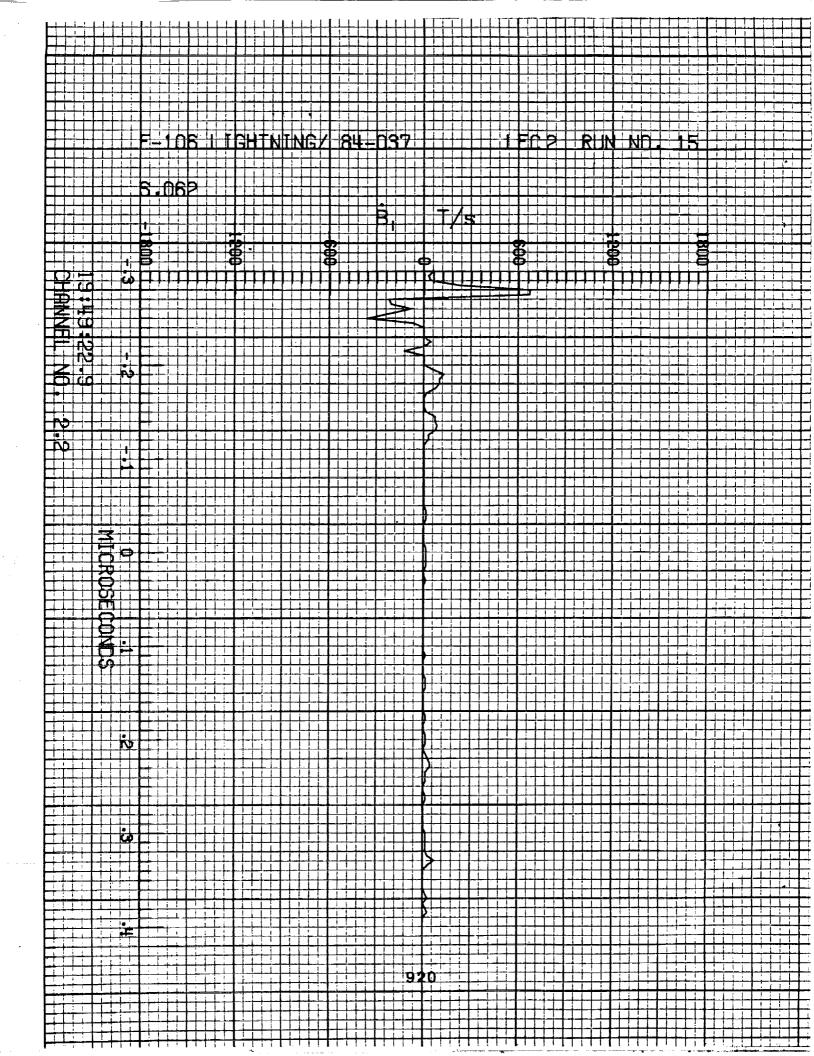


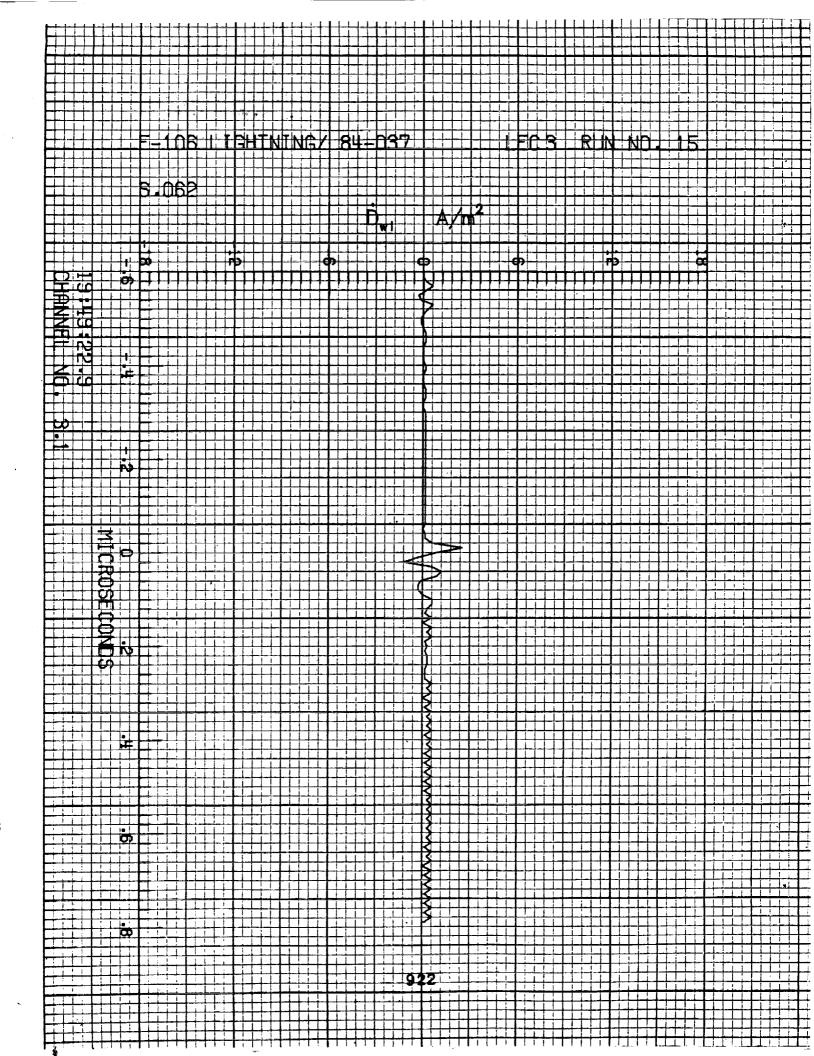


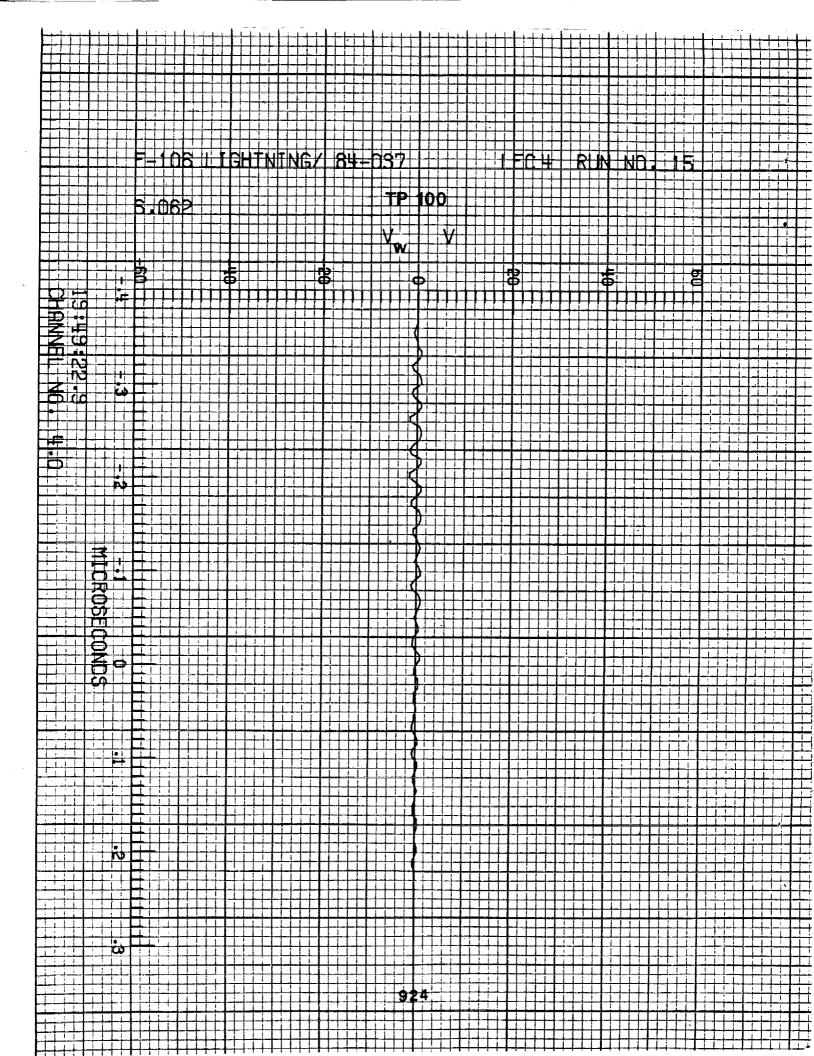








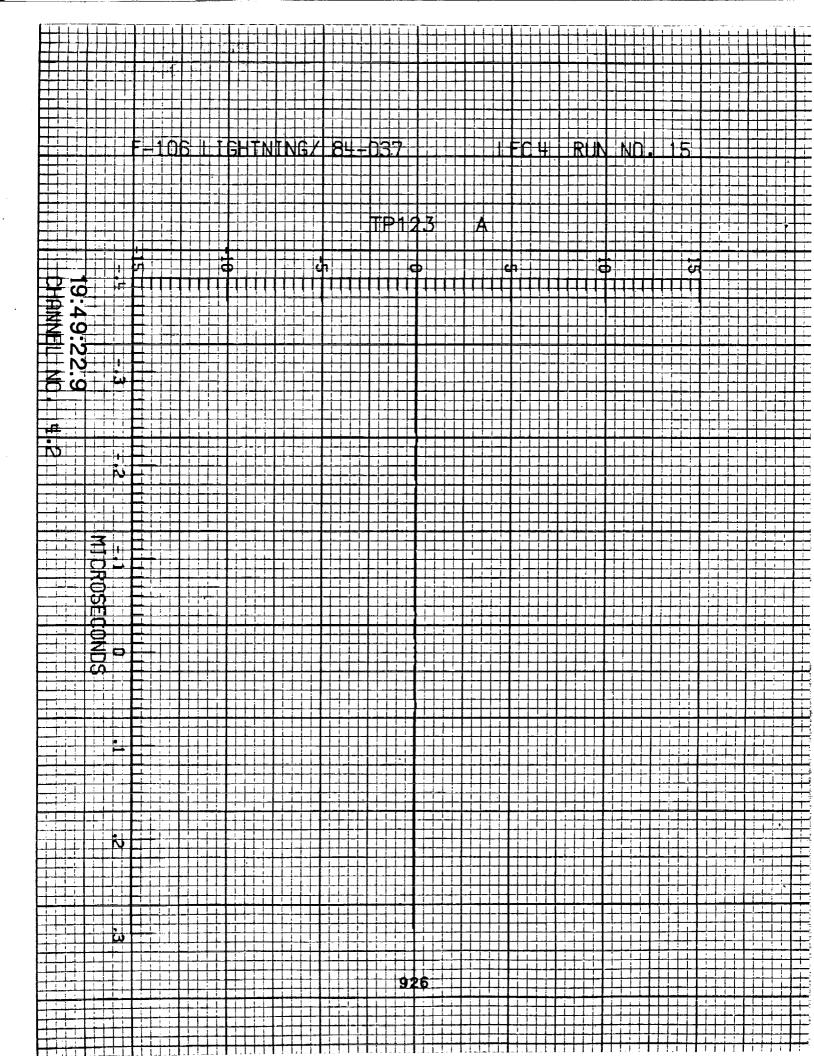


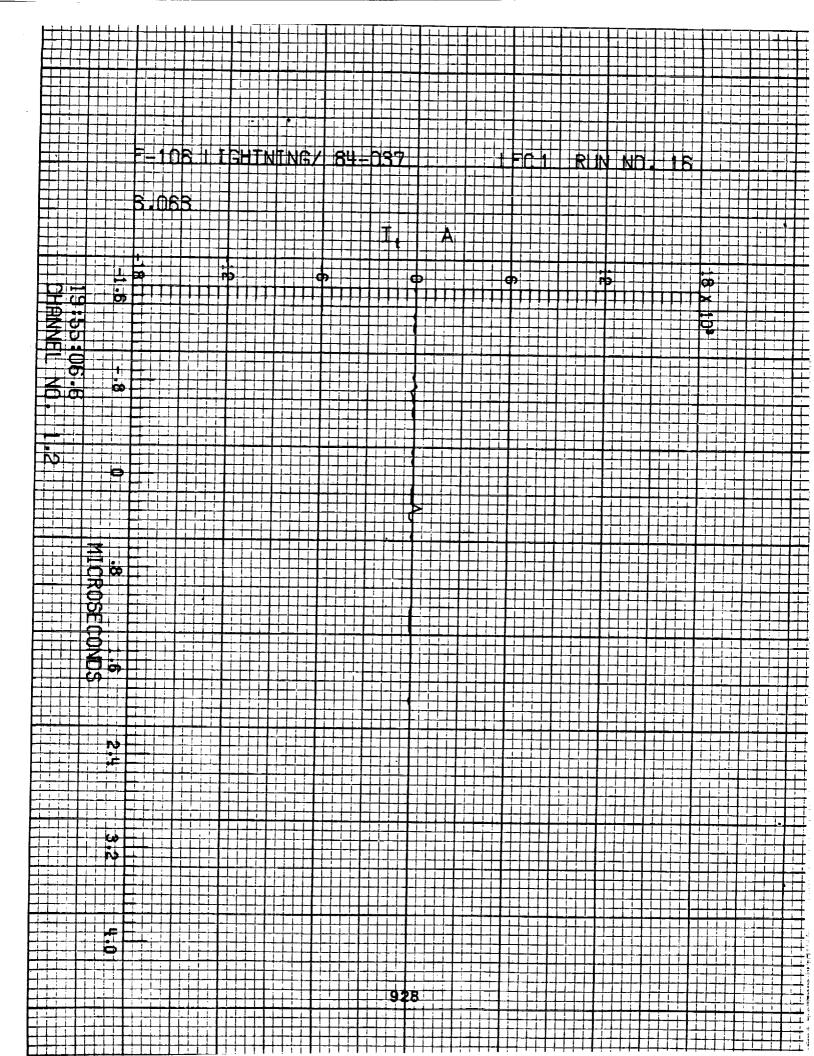


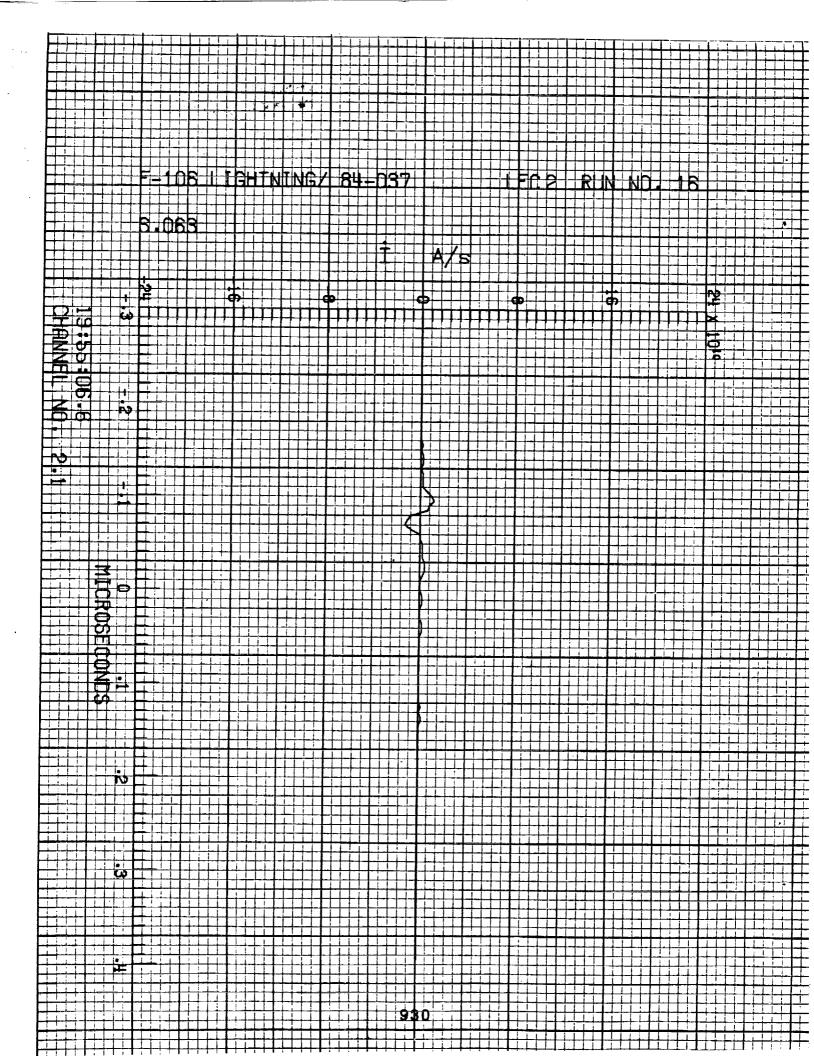
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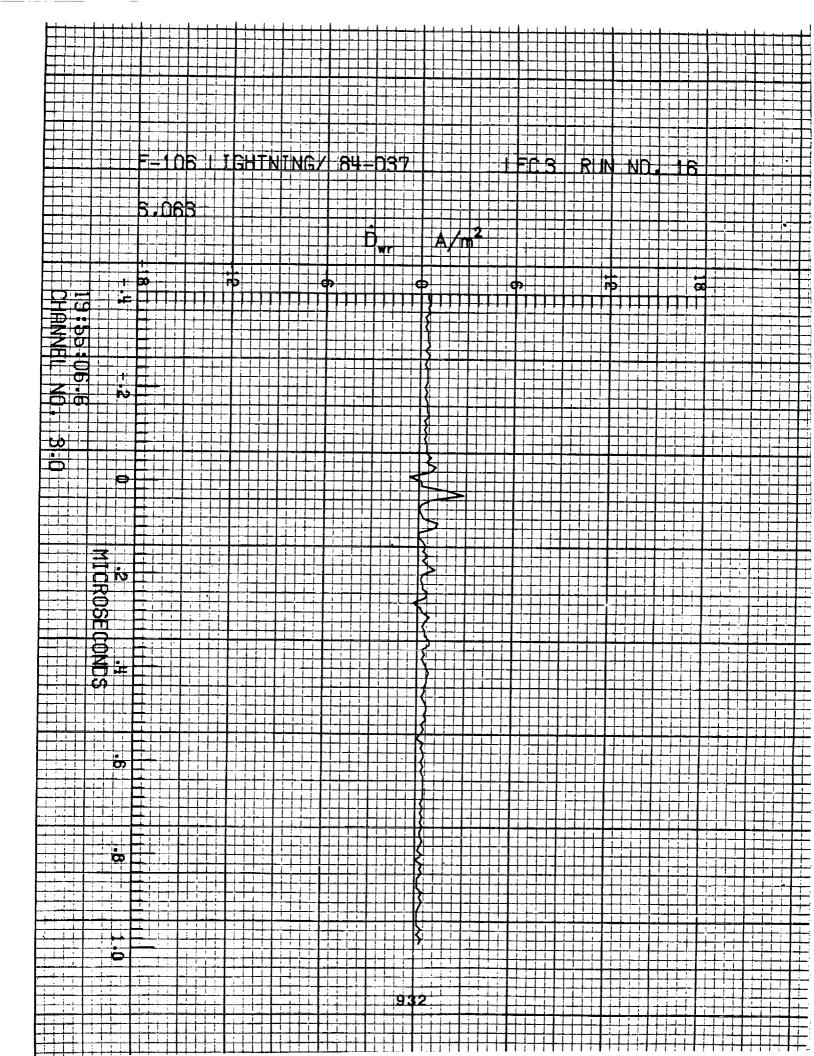
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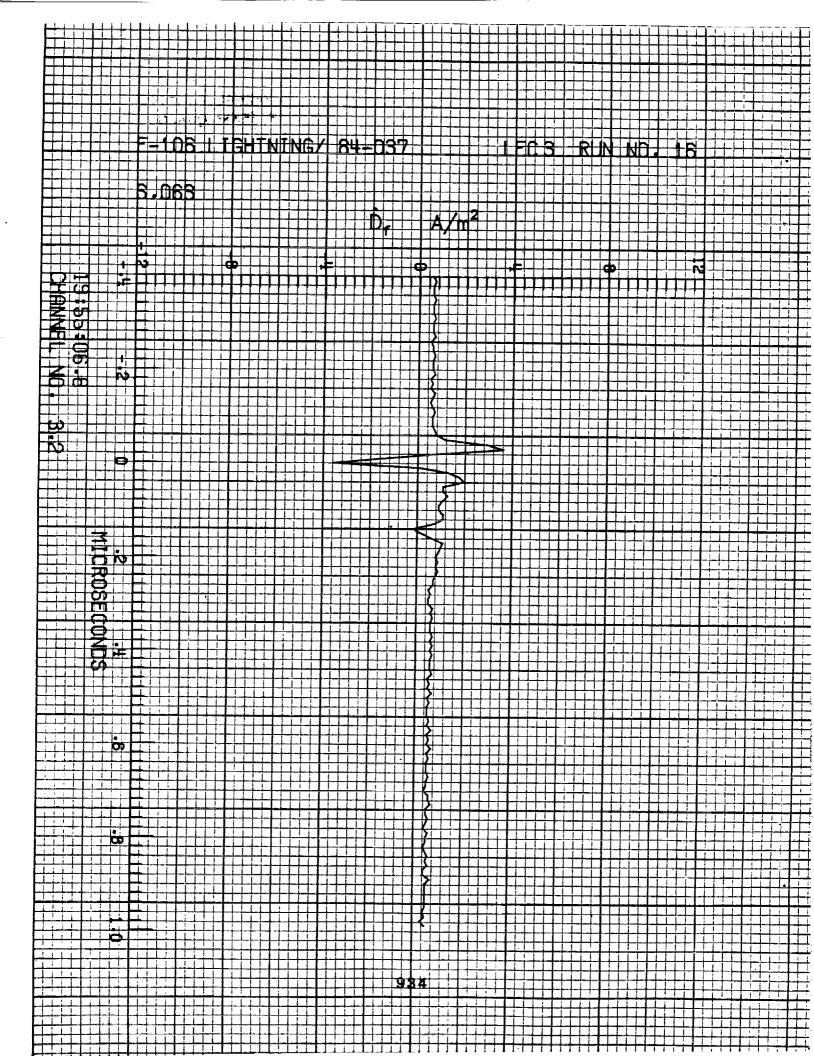
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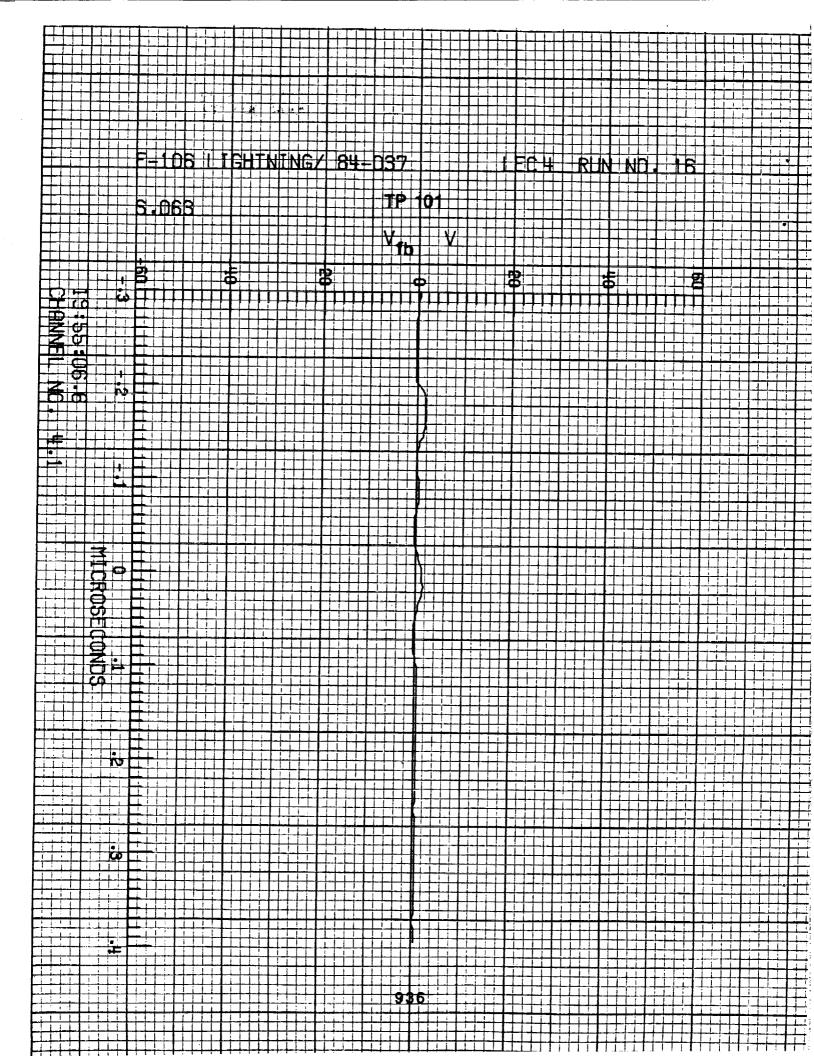






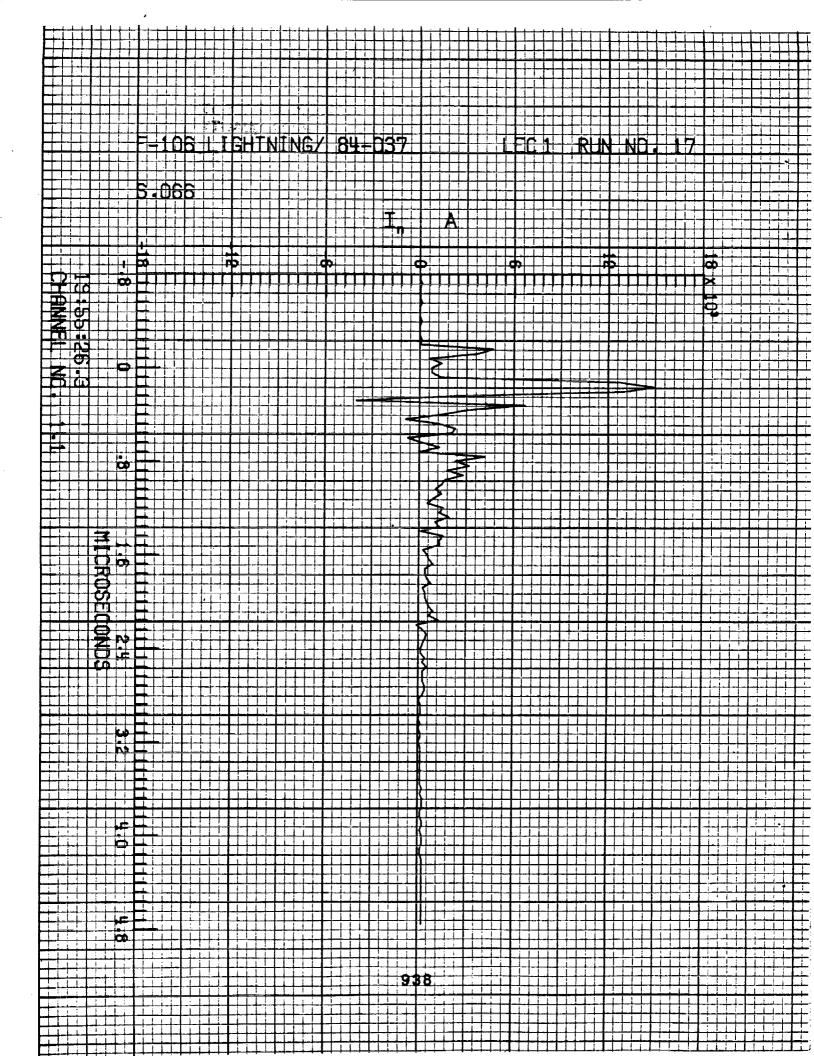




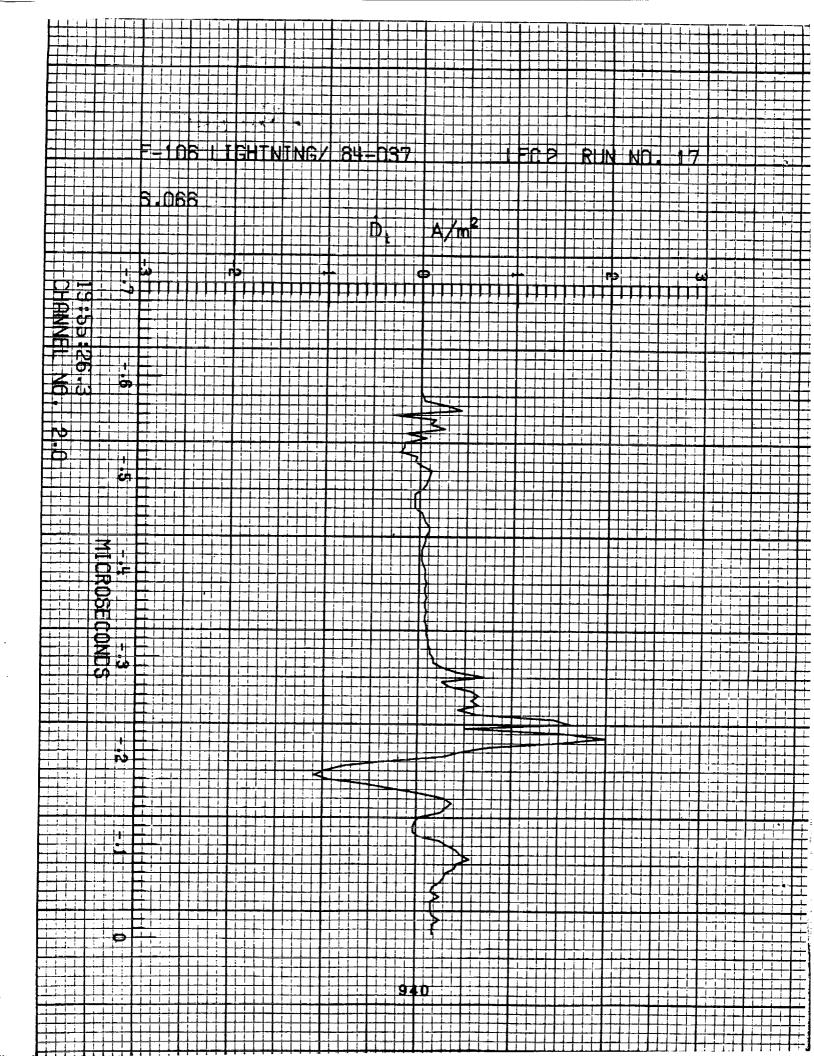


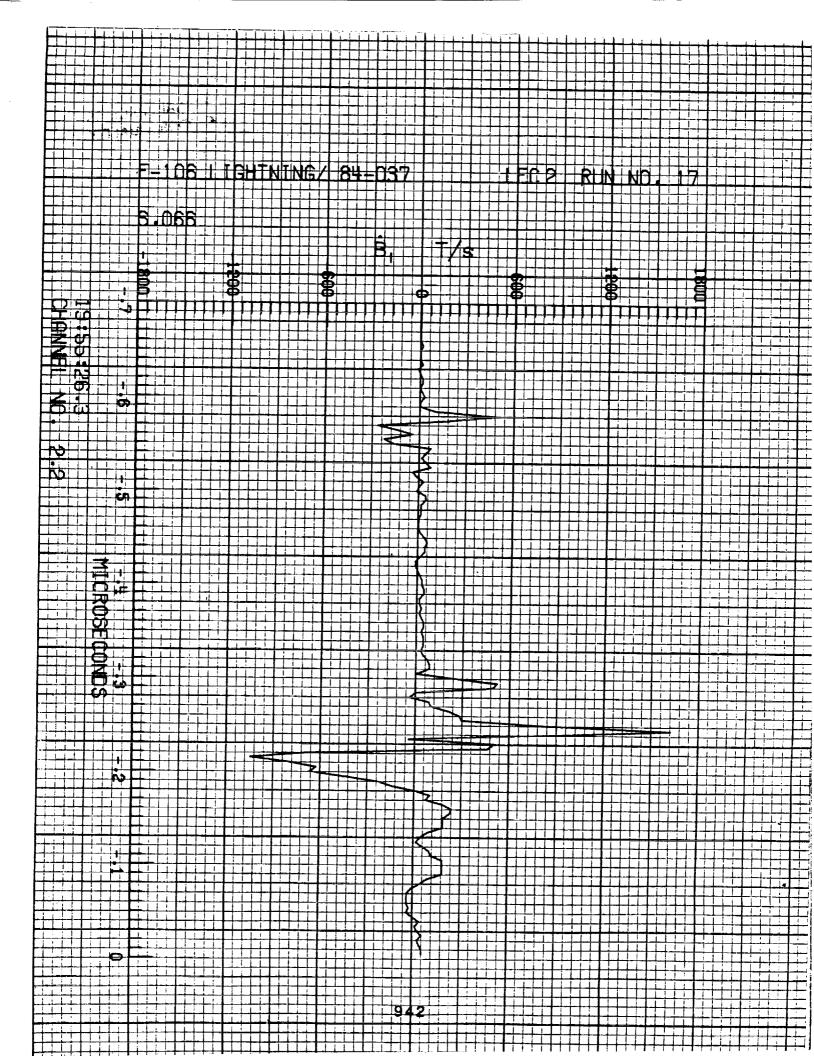
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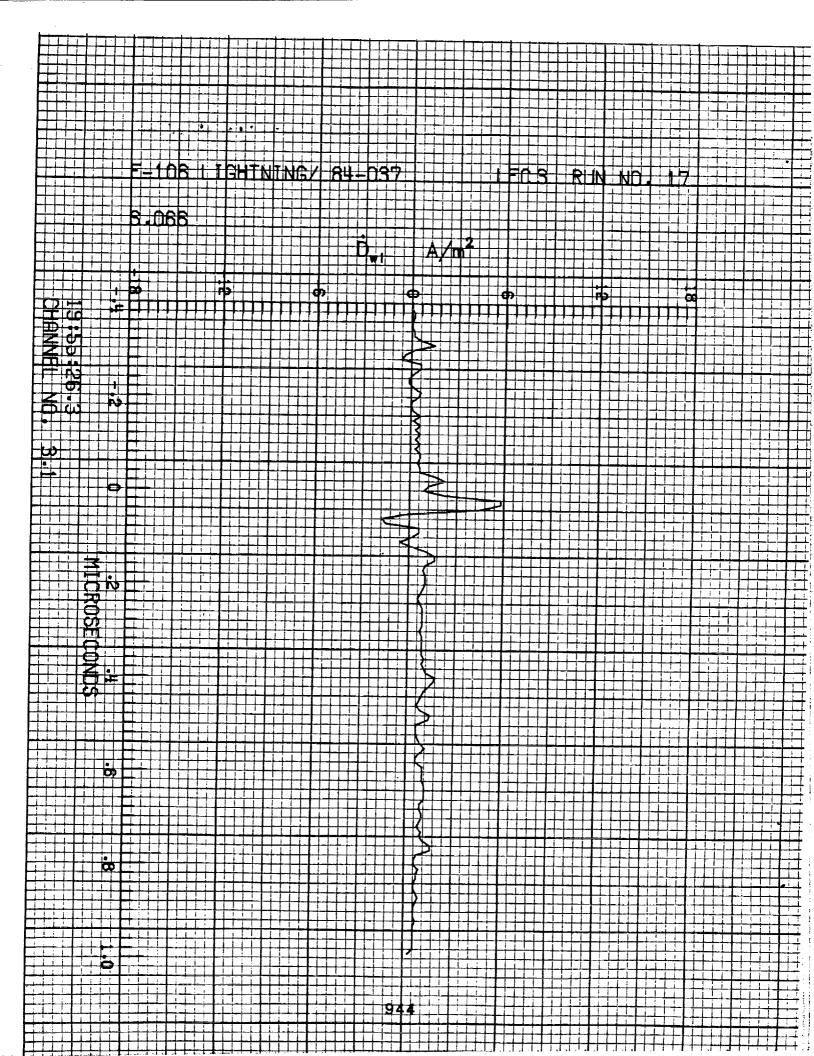
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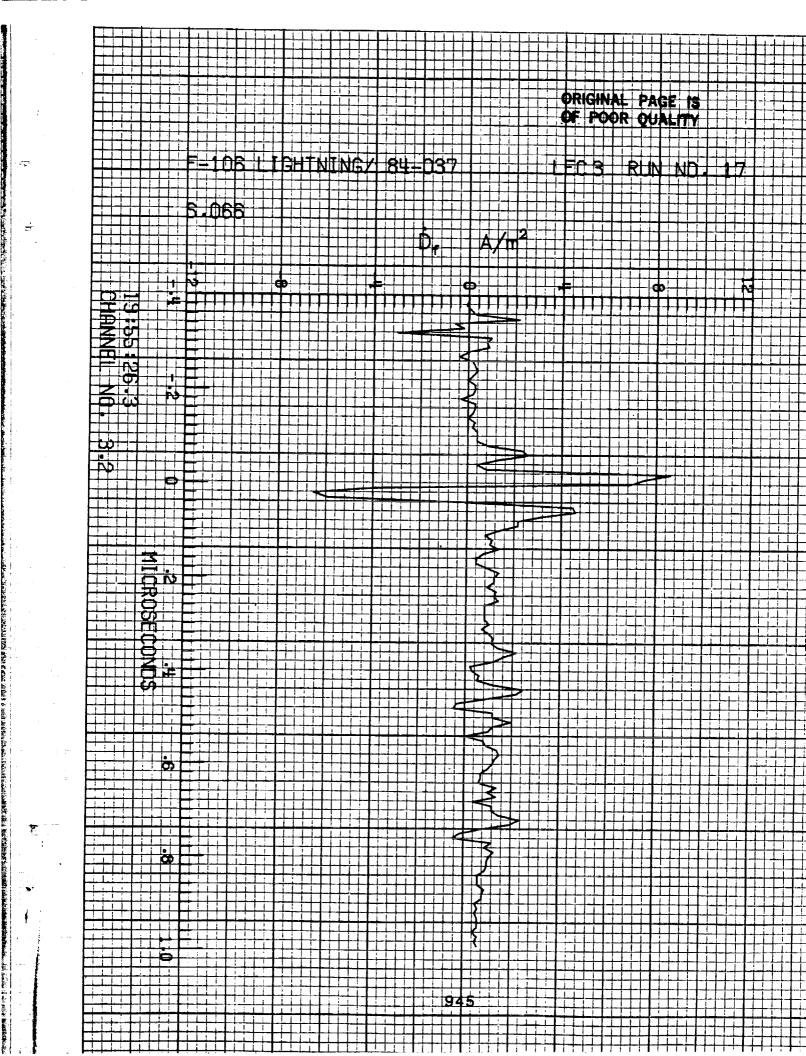


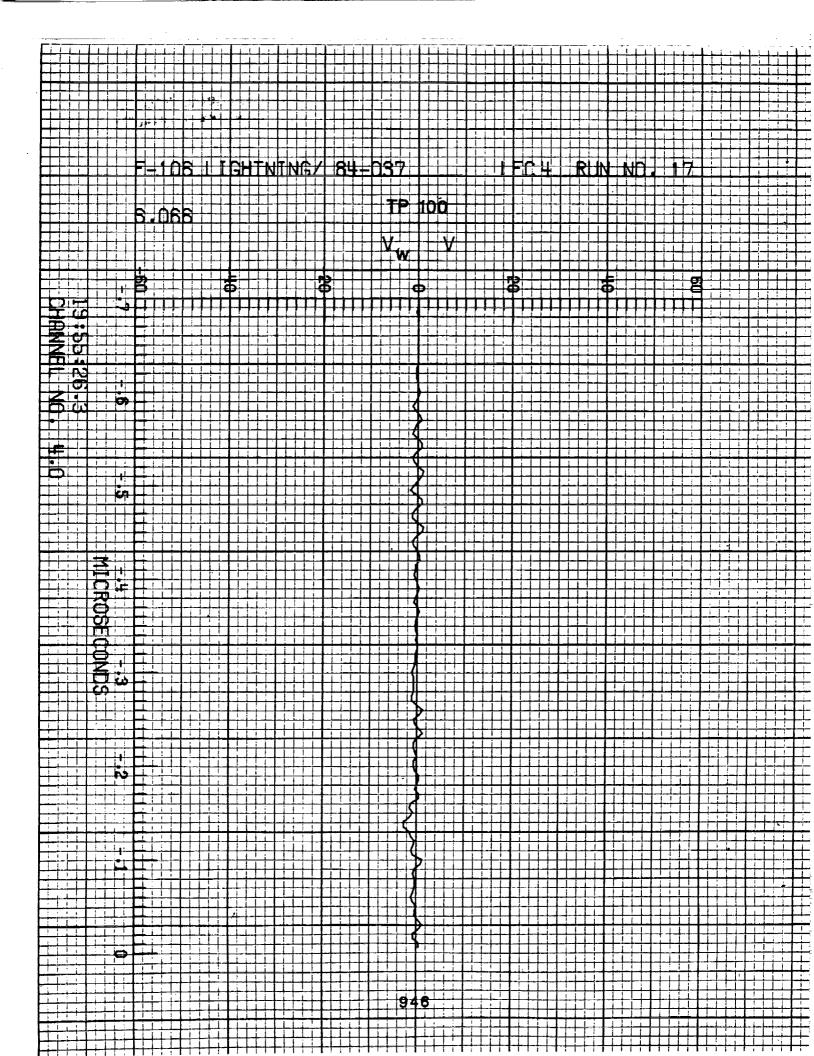


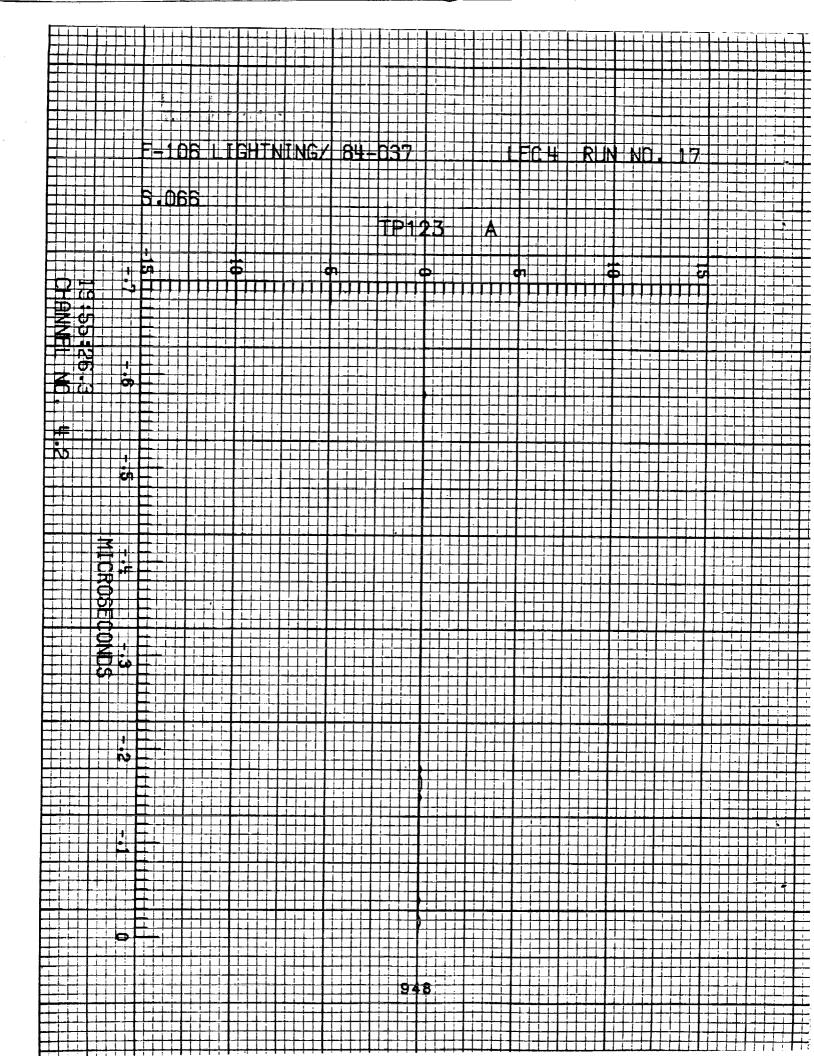
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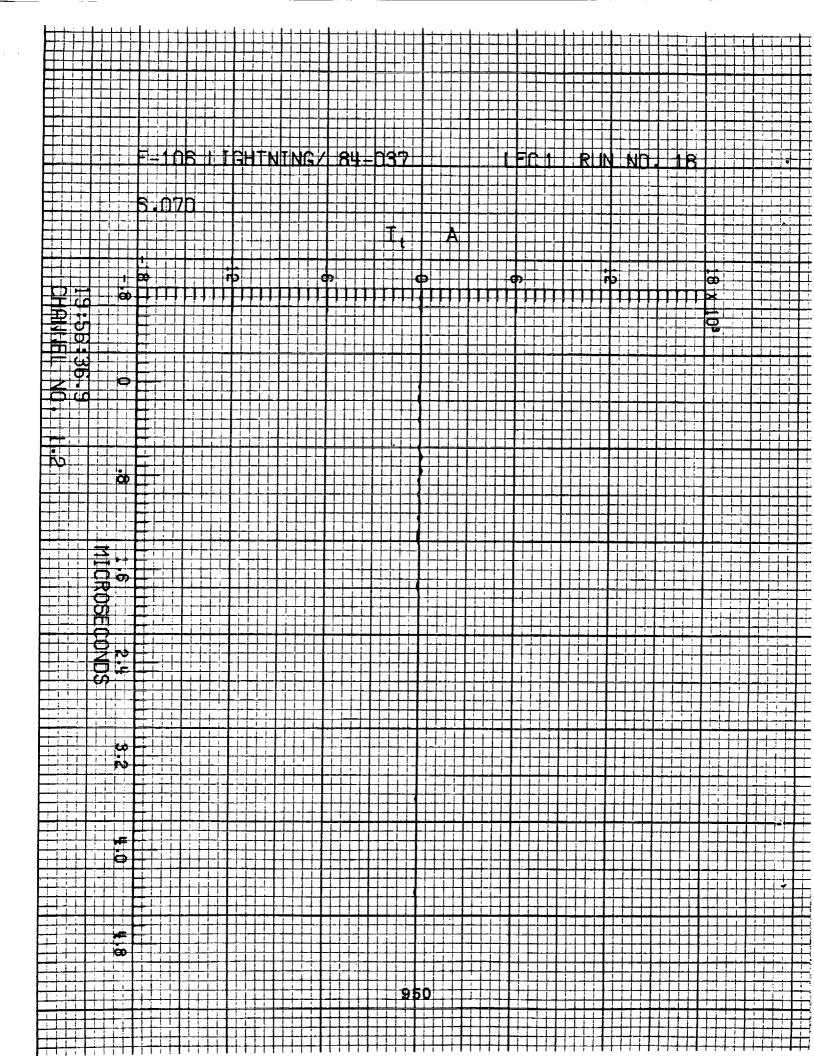
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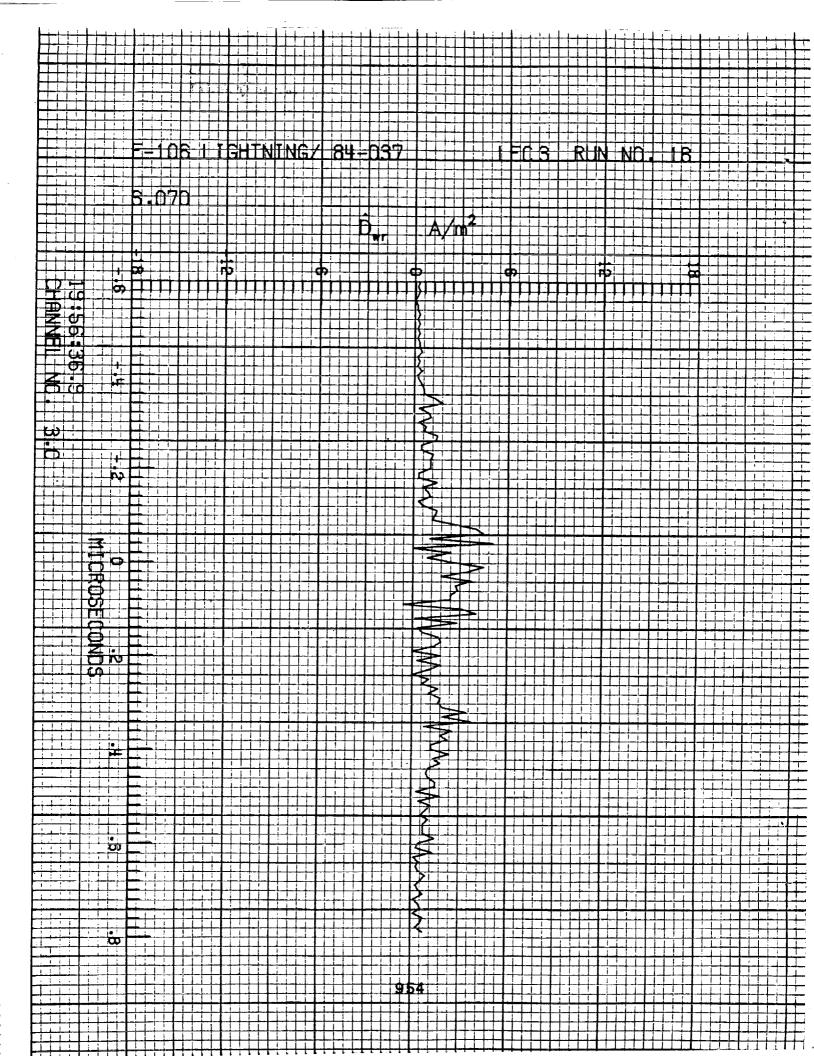


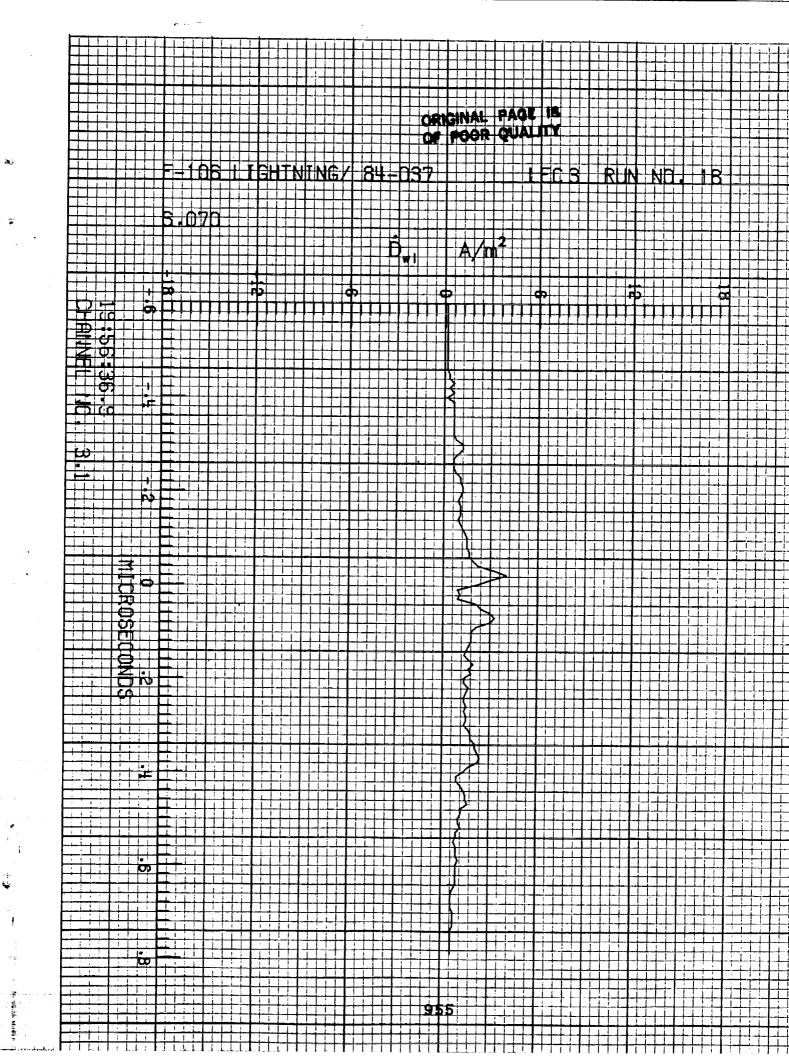




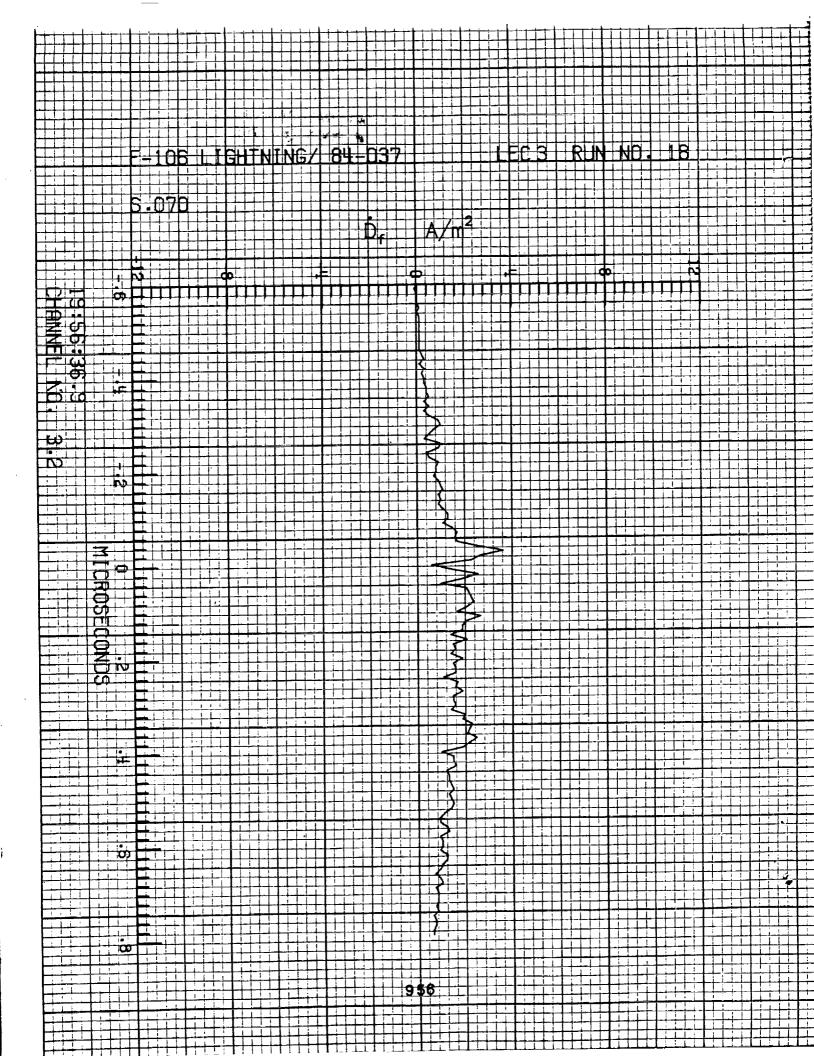
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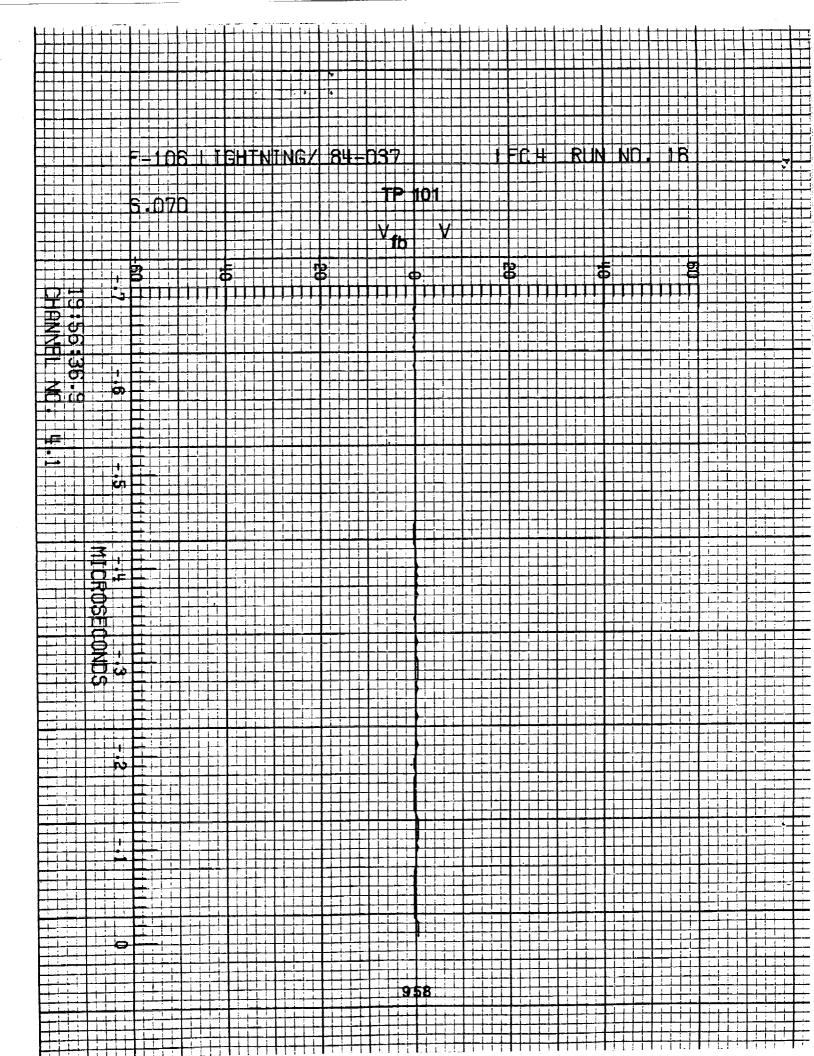


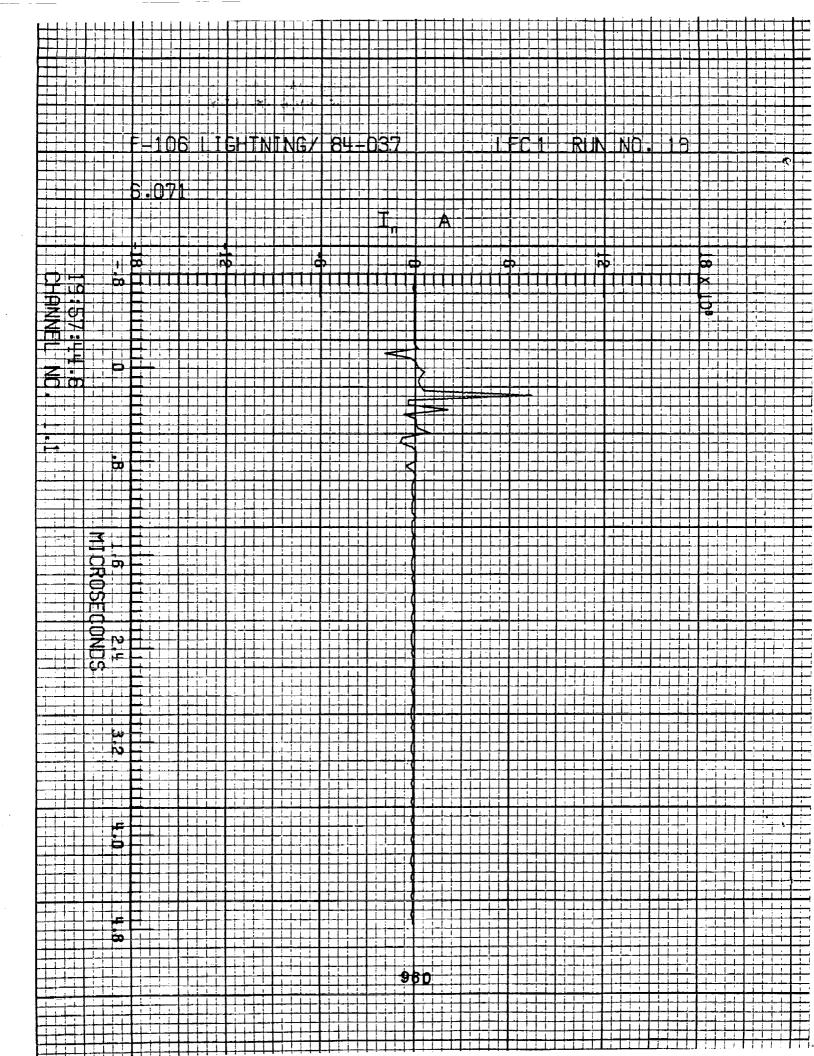
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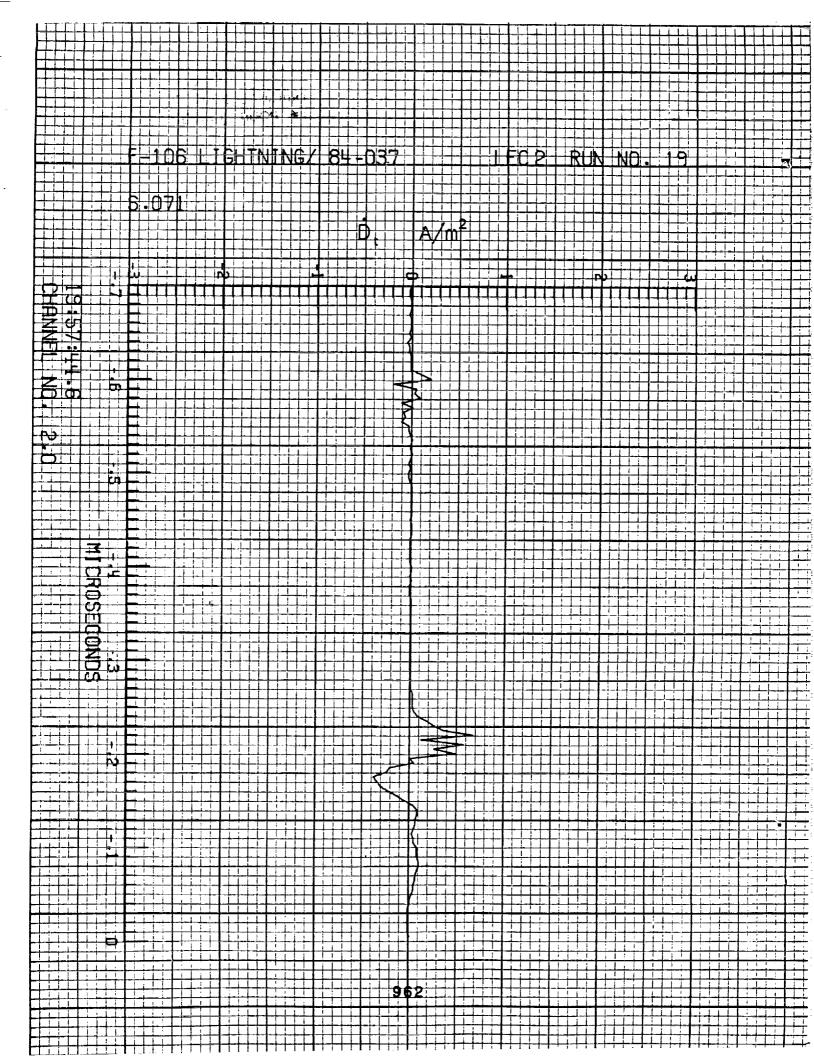


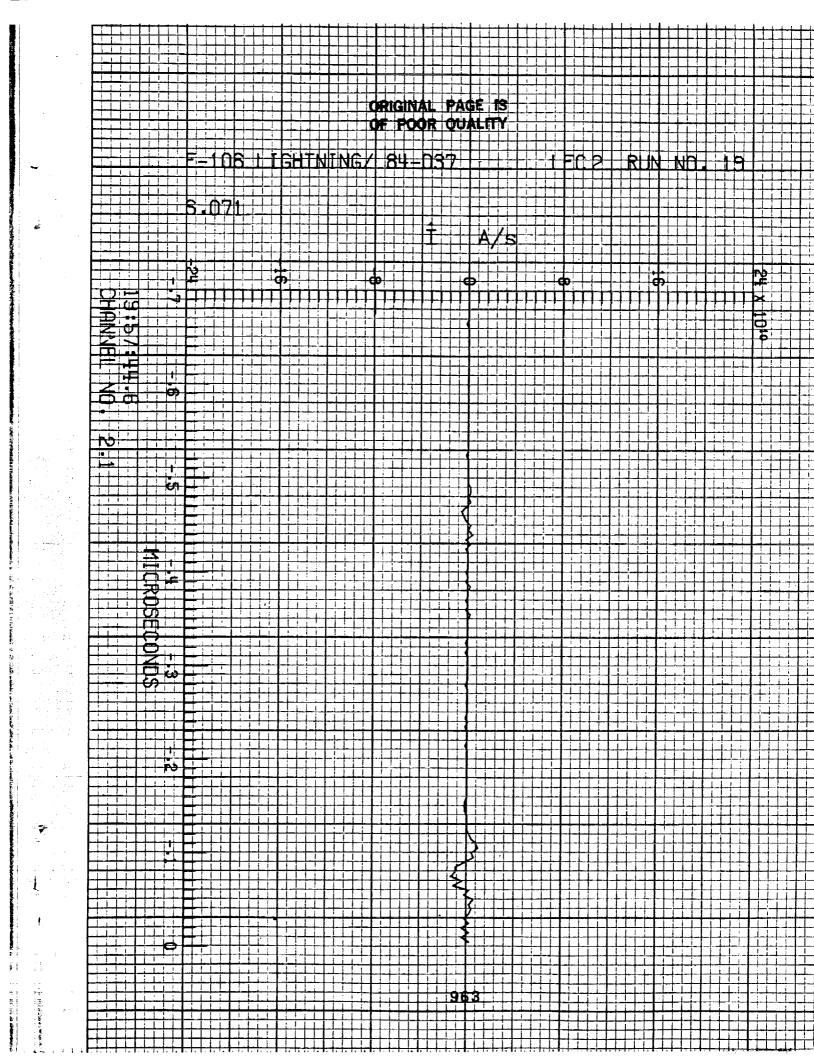
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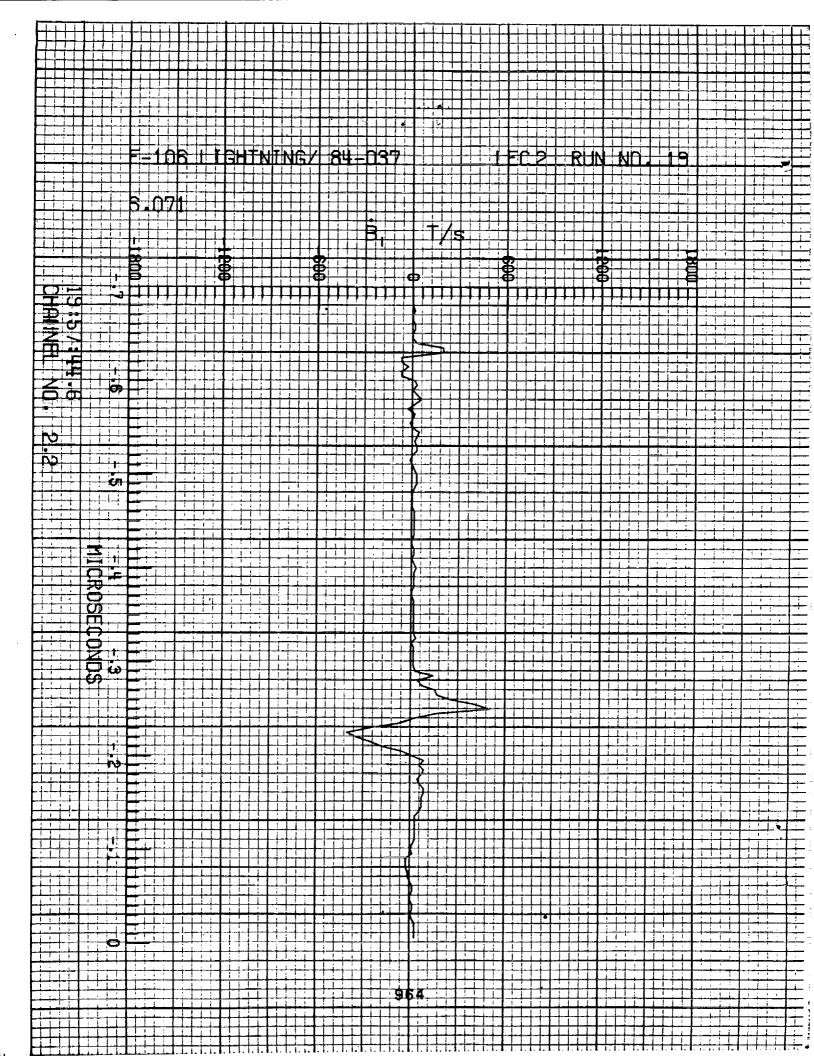
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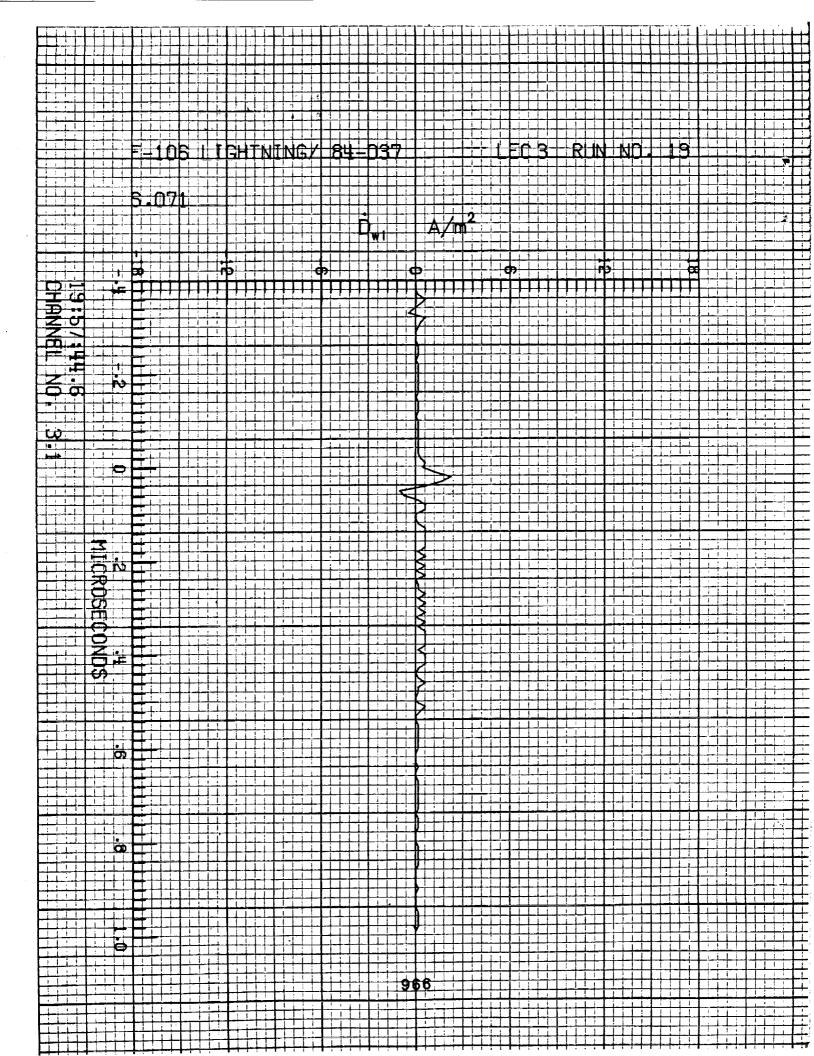


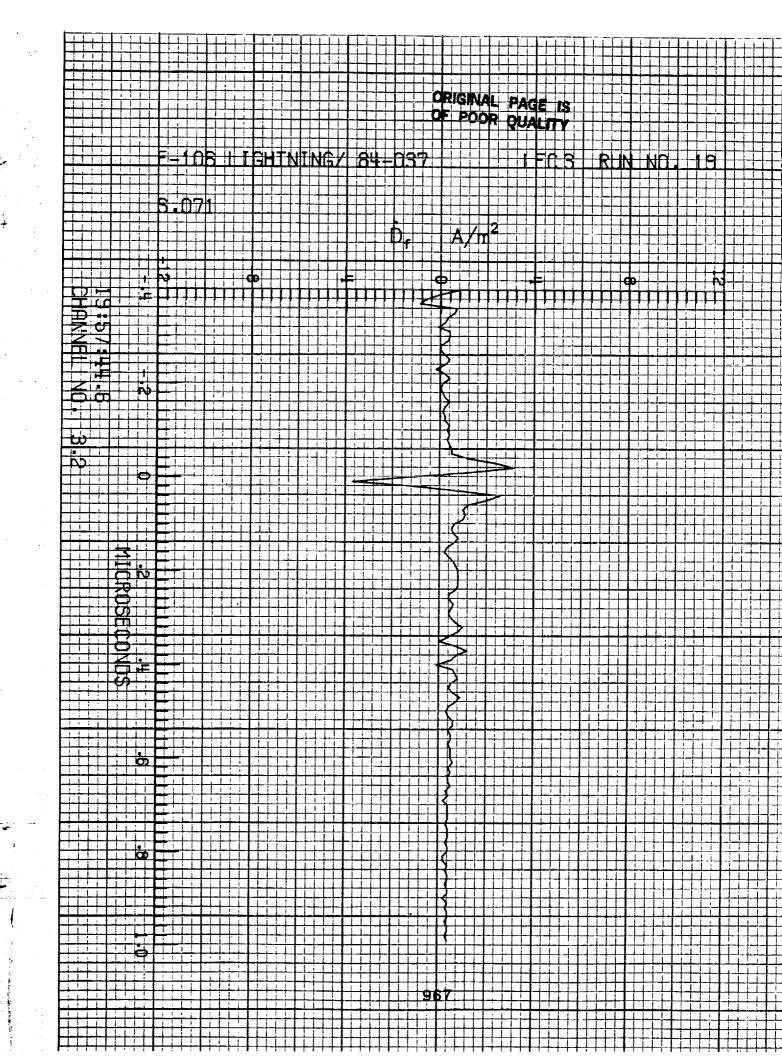


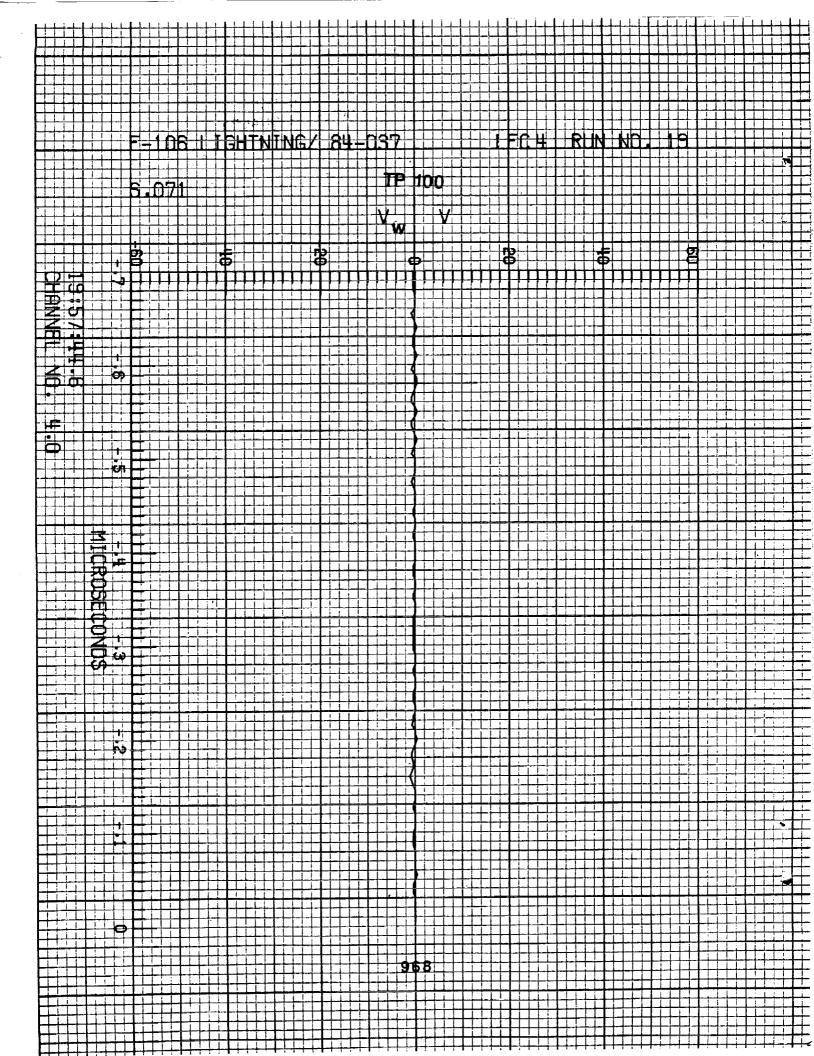


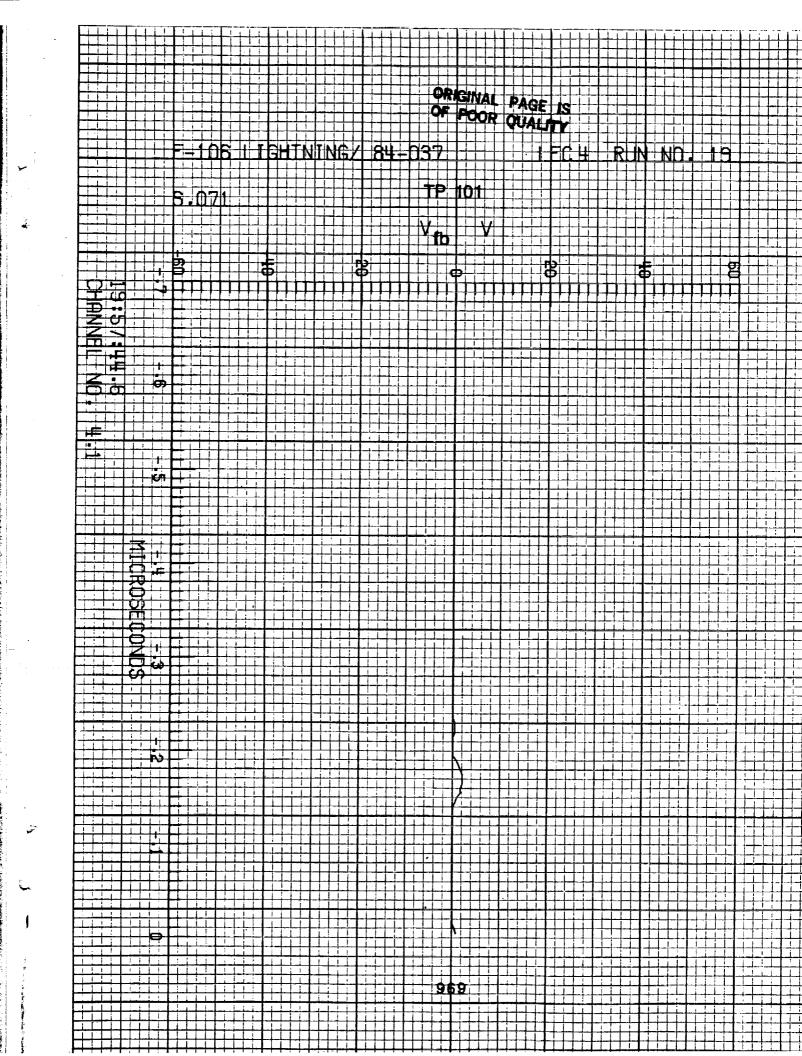


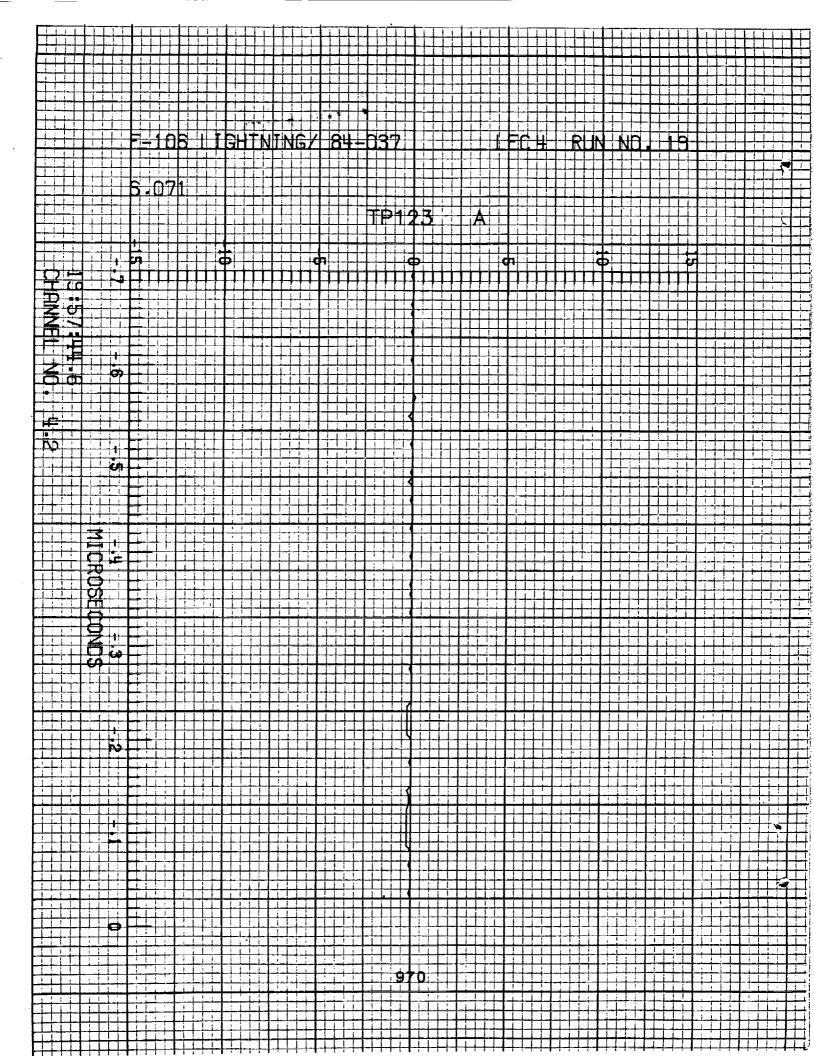
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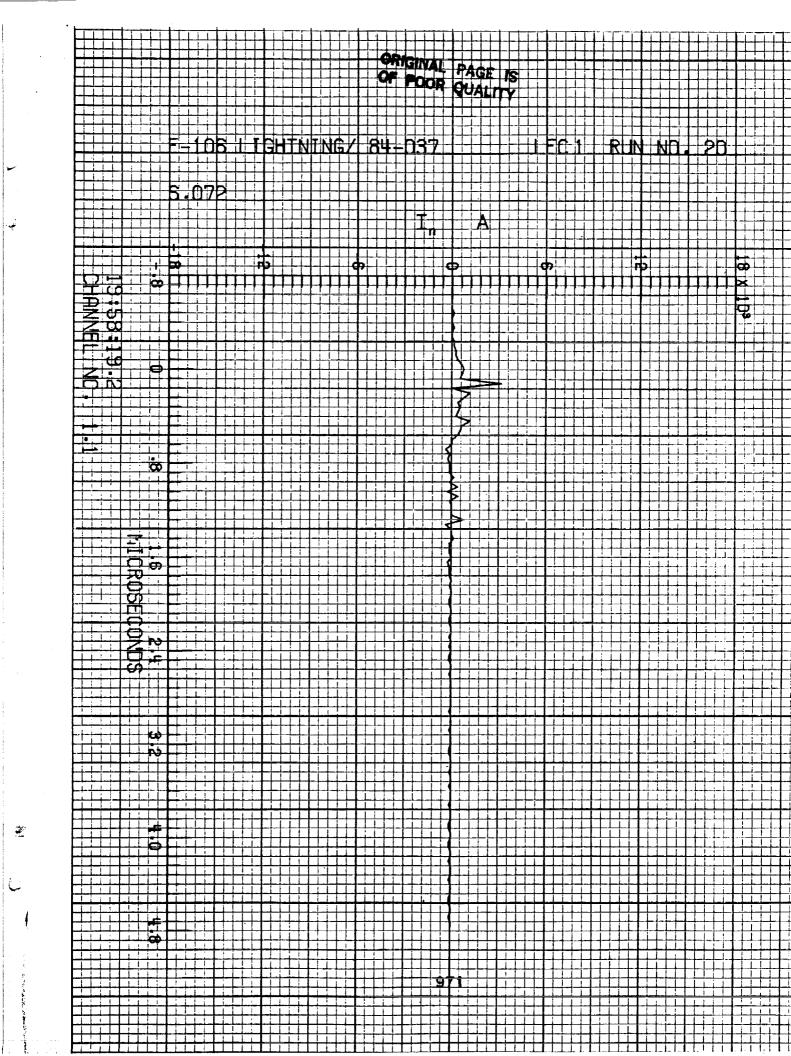


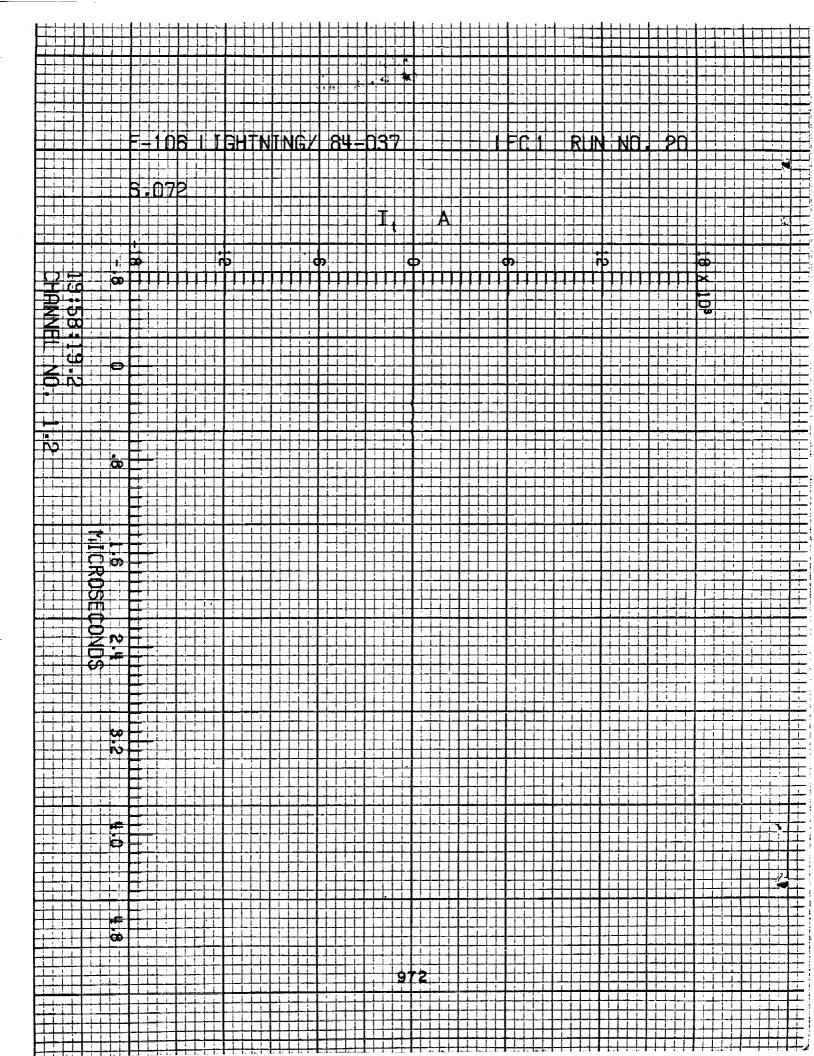


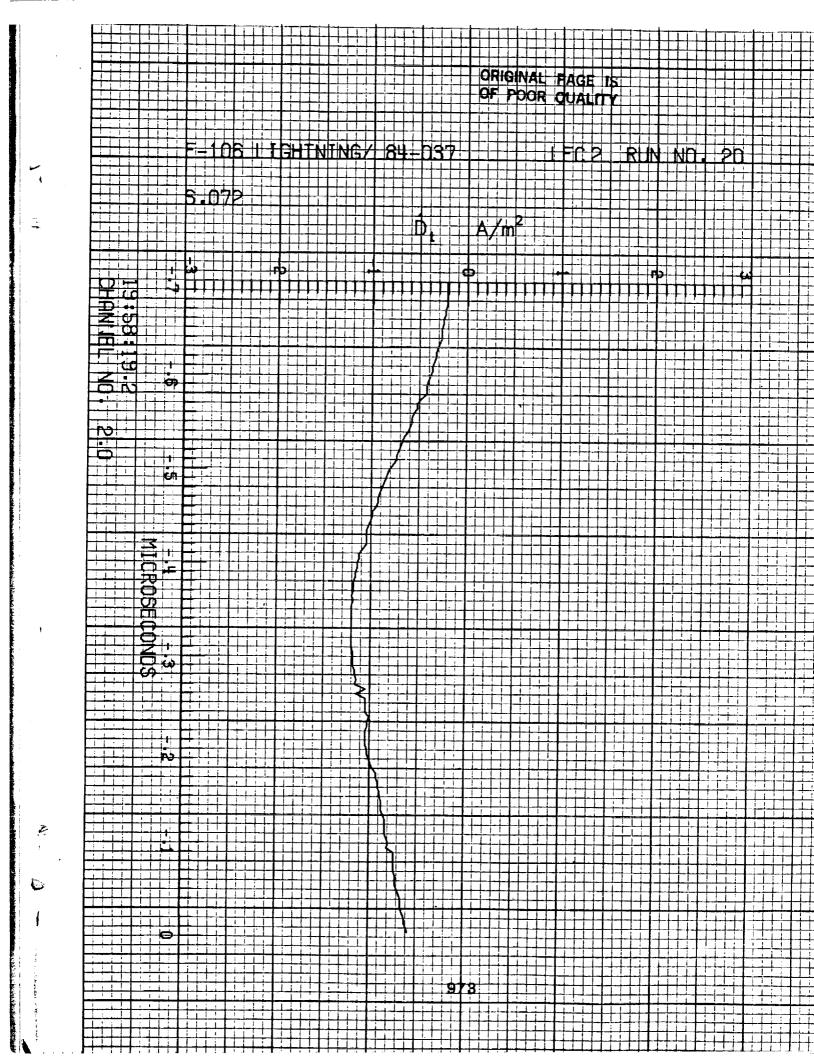


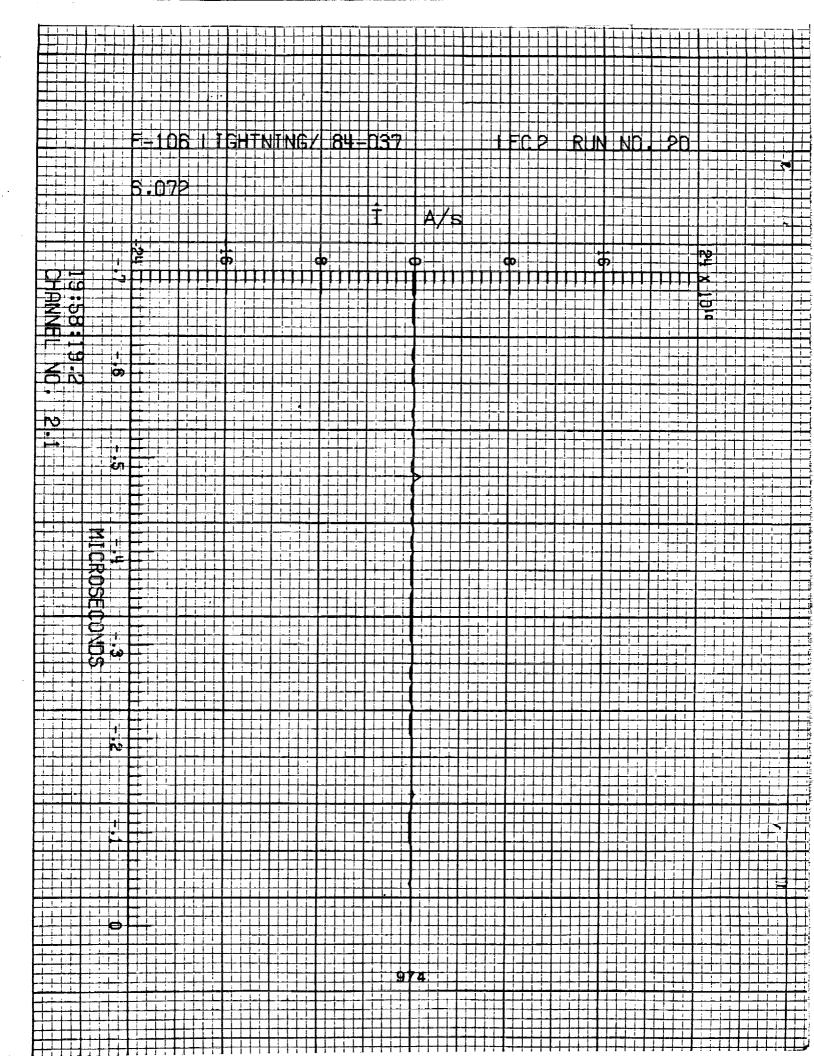


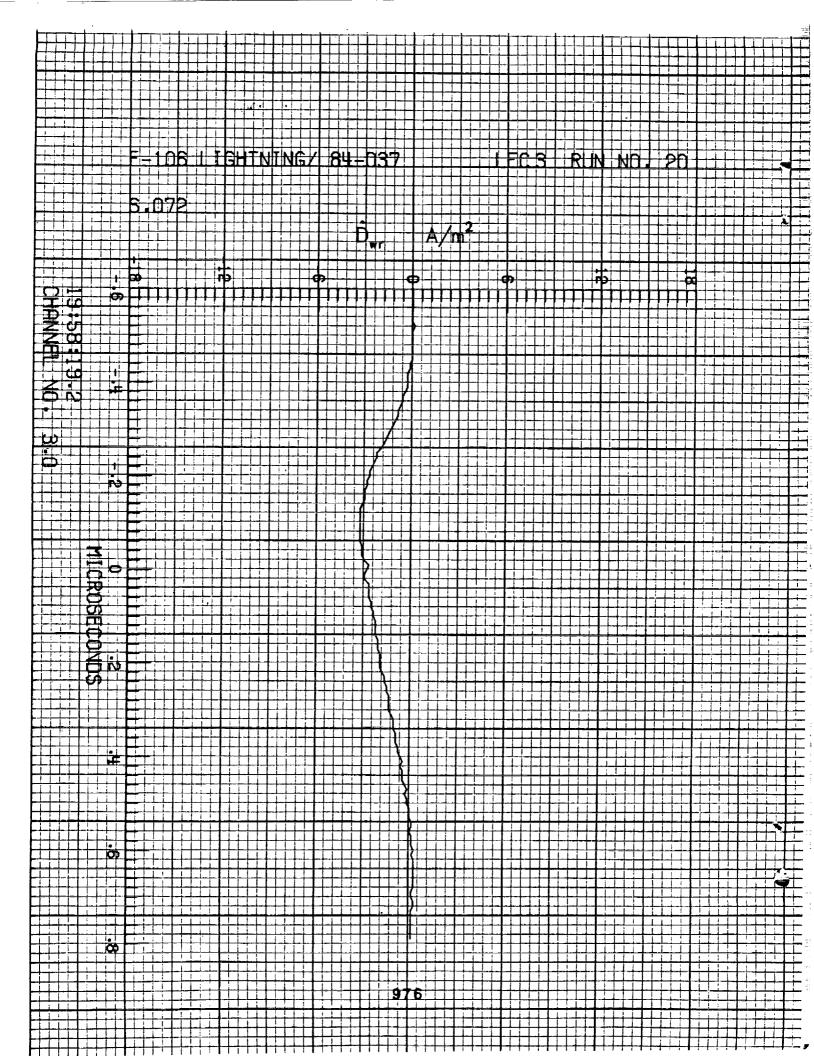


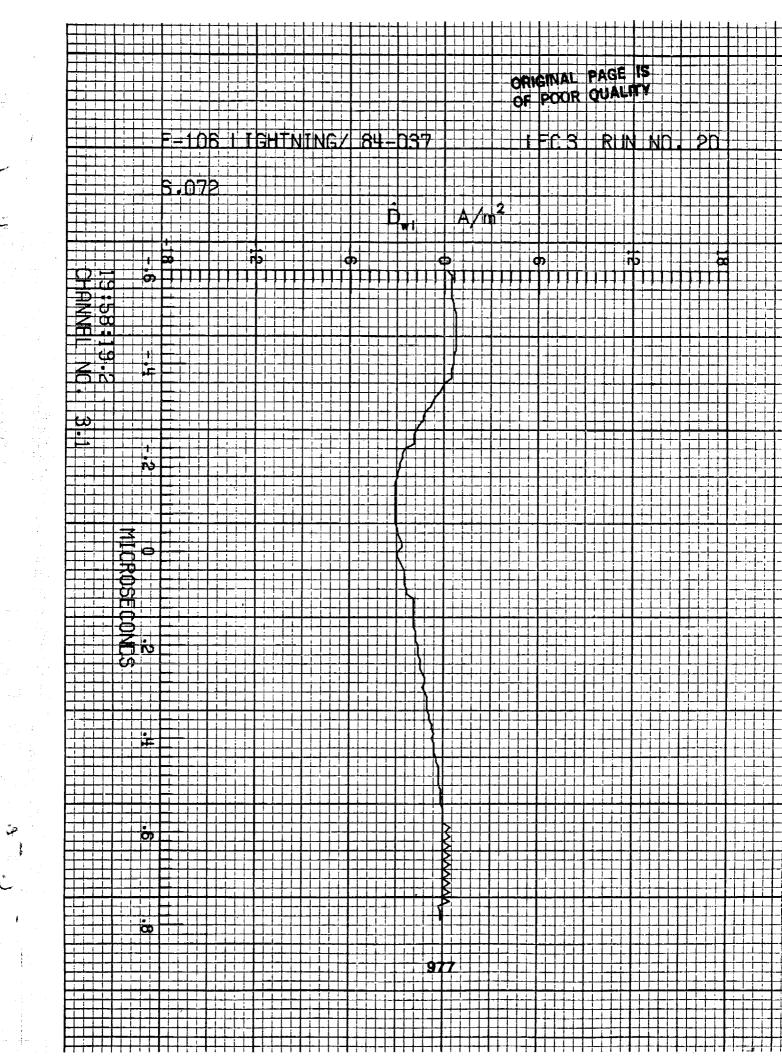


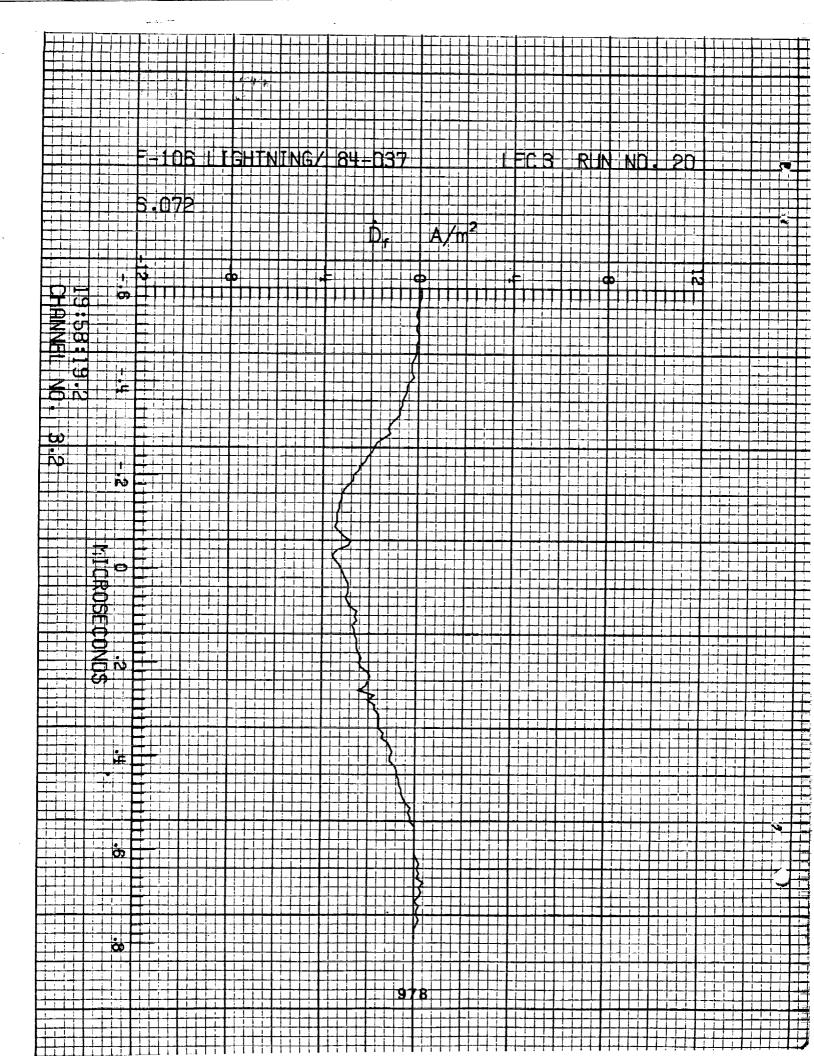




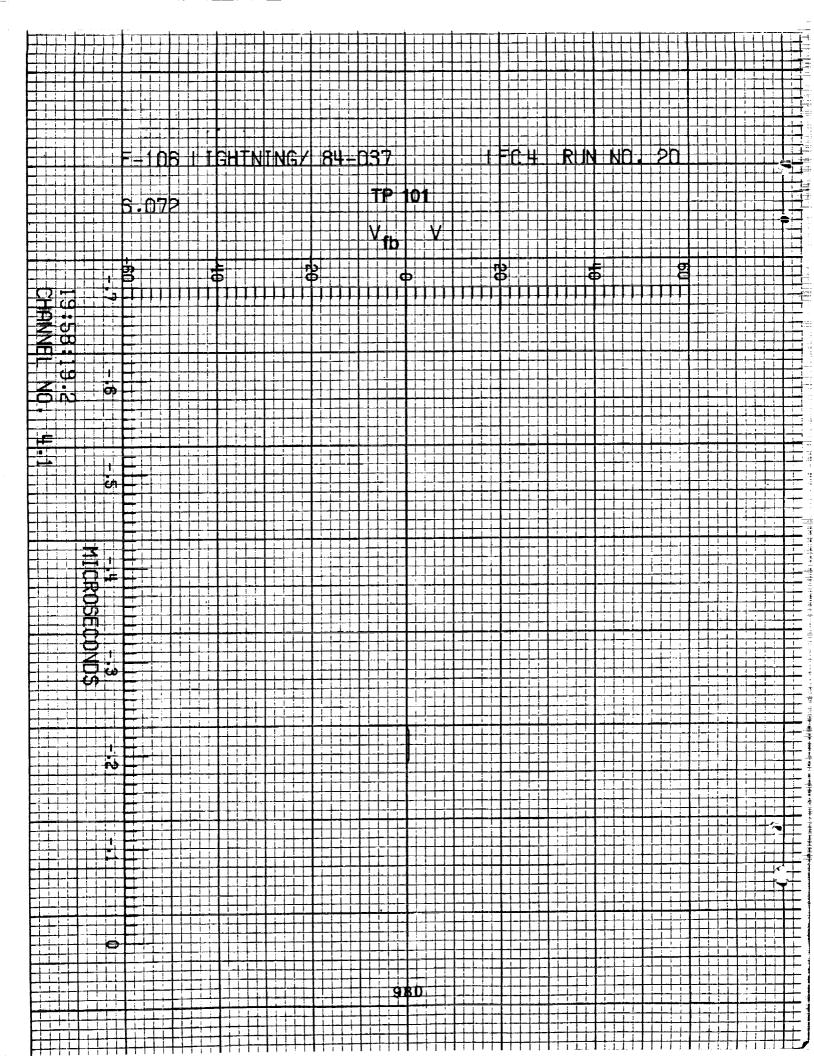








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16. Abstract

Data waveforms are presented which were obtained during the 1984 direct-strike lightning tests utilizing the NASA FlO6-B aircraft specially instrumented for lightning electromagnetic measurements. The aircraft was operated in the vicinity of the NASA Langley Research Center, Hampton, Virginia, in a thunder-storm environment to elicit strikes. Electromagnetic field data and conduction currents on the aircraft were recorded for attached lightning.

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